IMPERIAL GAZETTEER

BENGAL,

CHOTA NAGPUR DIVISION,



Exicatia: The BENGAL SECRETARIAT PRESS. 1907.



CHOTA NAGPUR DIVISION.

CONTENTS.

Chots N	agpur Div	rision		***	***	1
Hazarib	agh Distri	lot	***	***	***	8
Bonndarie	os, configure	tion, and b	ill and r	var ayatem	***	ib
Geology	***	***	***	-	,	4
Botany	***	***	***	***	•••	т
Fanns	***		***	***	201	5
Olimata a	ad temperat	PZZ	**	196	***	ið.
History	44*	***	***	***	***	ib
Archaele	W.T	***	***	***	***	7
The peop	le	**	***	***		ib
Their ou	stee and occi	npations	***	***	***	8
Christies	Missions	***	***	***		46
General :	agricultural	conditions	***			63
Chief ag	ricultural st	atlatios end	principa	d erops	•••	9
Improve	menta in eg	ricultural p	ractics	***	•••	8
Cettle	***		***	***		13
Irrigatio	Δ.	***	***		***	10
Forests	1 00	**		***	***	ib
Mineral	resources	***	***		***	έδ
Arts and	mannfactu	TOR	***	***	•••	18
Commet	oo and trade		***	***	***	13
Railway	s and roads		***	* ***	***	14
Femino	-	***	***	841		iò
District	sub-division	es and staff				is.
Civil an	d criminal	nstice	***	•••	***	iŏ
Land ro	renue	•••	***		***	. 12
Local ar	ad municips	l governme	at .	444	***	16
Tronno 1	min' dan	~	***	***	***	То
Educat	ion			***	***	10
Medics	ı	***		***	•••	17
Vacciu	stion	***	***	***	•••	έð
Bibliog	rophy	***	***	***	***	17

-					
Hazaribagh District	-concluded				PAGE
Hazaribagh Sub-			***	***	17
Giridih Sub-divis		e30		,440	ib
Chetra	***	-	**		ib
Giridih Town	***	***	***	•••	18
Hazaribagh Tow			***	•••	. ib
Kuluha Hill		***	•••	•••	10
Kunda					ib
Lugu	***	•••	***		ib
Mahahar	•••	***		***	ib
Mahudi	***	***		***	ib
Pachamba				***	. 20
Faraenath	***	***	•••		έδ
Ramgarh	***				+8
Ranchi District	***		414	***	21
Boundaries, configu					48
			•	***	22
	***	***	***	194	έδ
	***	•••	***	705	29
Fauna	***	***	***	***	移
Climate and temper		***	***	***	ib
History	•••	***	***	***	-
Archmology	***	***	***	***	25
The people	•••	***	•••	•	16
Their castes and oc	oupations,	***	***	***	27
Christian Missions	***	***	***	•••	18
General agricultura			***	***	68
Ohisf agricultural s			al orops	***	28
Improvements in as	ricultural p	practice	***		16
Cattle	***		***	***	20
Forests	444	***	***	***	18
Minerals	***	***	***	***	ÌЬ
Arts and manufacts	ires	***	•••		ib
Commerce	***	***	***	***	. 16
Railways and roads	.,,		***		` a
Famine	***	600	•••	***	ib
District aub-division		***	***	'	(6
Civil and criminal	natico	-	***	•••	- śi
Land revenue	***	***		***	éŏ
Local and municipa	Corremon:	i.,			82
Police and jails		***		***	83
Education			· ***	***	ib
Medical	***	454	•••		18

Ranchi District—concluded.

Bibliography ...

Ranchi Sub-division

Gumia Sub-division

Administration

Land revenue

Police and joils

Education

Medical ...

Vaccination.

Civil and criminal justice

Local and municipal government

		PAGE.	
***	***	 33	
	•••	 iò	
•••		 94	

ib

iå

45

46

íŏ

iš

ib

... 65

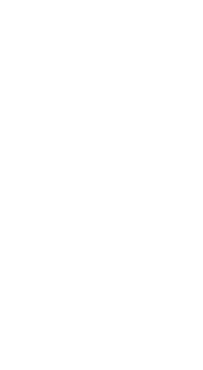
...

•••

Khunti Sub-di	vision	***		***	ib	
Bundu	•••	**	102	•••	ib	
Chutla		***		***	ib	
Gumla Village	***			***	ib	
Khunti Village	e	***	•••	***	35	
Lohardaga	***	•••	***	***	ib	
Marang Burn			***	***	ib	
Palkot		***	***	***	13	
Ranchi Town	•••	***	***	***	ib	
Saru		•••	***	***	96	
Palamau District		•••	***	443	65	
Boundaries, confi	guration as	d hill and ri	ivor system	E	ib	
Geology	***		***	**1	57	
Botany	•••	***			98	
Fauna	***	***	***	***	ib	
Climate and temp	perature	***	***	***	89	
History	***	***	***	144	ib	
The people	150	••	***	***	40	
Their oastes and	occupation	A	•••	***	41	
Christian Mission	18 ***	***		***	ib	
General agricults	urel conditio	on 8 ***	***	****	16	
Principal crops	***	201	•••	***	16	
Improvemonts is	n agricultur	al practice	***	***	43	
Cattle	***		***	***	13	
Irrigation	***	,	***	•••	iš	
Foresta	***	***	***	•••	ib	
Minerala			***	***	49	
Arts and manuf	sotures		•••		ib	
Commerce		***	***	•••	44	
Railways and re	nds	***	. ***	***	ib	
Famico	***	***	***	•••	ib	

Palamau D		mcluded.				PAGE.
Bibliogra	phy	449	***		* ***	46
Daltong	anj	•••	***		***	ib
Garwa	***	***	***	***	•••	47
Manbhum !		***		***	•••	ib
Boundari	en, configu	ation, and	bill and	river system:		15
Geology	***	***	***		***	. 48
Botany	***	***	***	***	***	49
Fanna	40.	***	***		***	íō
Climato a	nd tempers	ture	***			18
History		***	***		***	60
Archmolo	CF	***	***	•		61
The peop	lo	***	•••		***	45
	tes and occ		***	,	-	52
Ohristian						· 15
General s	gricultarel	conditions				a
	icultural st					th
	ents in agr			•	***	53
Onitio	annes im infle			***	200 30	45
Izrication			***	•••	***	25
Foresta	***	***	***	***		54
Minerate		•	***	***	•••	13
	menufactur	***	***	***	***	55
Commerce			- ***	***	***	66
		**	***	441	***	56
Railways	and roads	***	***	1	•••	#
Femine		***	. •••	•••		•••
	ab-division		•••	•		
	criminal ja		***	••	•••	67
Land reve		***		4.0	***	в
	municipal	Constante	ıt	*44	***	68
Police and		. ••	***	***	***	ib
Education		***	***	***	***	69
	***	***	. 50	***	***	, ib,
Vaccinetic		**	***	*** *	***	45
Bibliogras		***	***	***	· · ·	13
	Sub-divle		tee	***	***	, ¥
	ur Sub-d	lvision	100	•	٠,,,,,	60
Boram	***	***	***	••·		16
Buddhpt			* 144	***	· • · · · .	18
Oharro		***	•••	***5	,	1 50
Dalma	'm '		•		·,	. 91
Dalmi			**	•••	. •••	-15
Gobine	hur VIIIe	uge .	, ,000	'n	/**	iò

Manbhuin District-	ancluded.				PAGE.
Jhalida			•••	***	61
Palma		***		***	ib
Panchet					ið
Parulis Town					62
Raghunathpur				***	ib .
Singhhhum District	***				45
Boundsriet, configur	witne and			***	ib
	,	HIM 4 M. V.			63
	•••		•••		64
Botany	***	***	***		ih
Fenna		101	***	244	ib
Climate and tempers	ture	***	•••	•••	65
History	***	•••	•••	***	•
Archmology	***		***	***	67
The people	٠	•••	•••	***	1Ď
Their castes and occ	npstions	***	***	***	68
Obristian Missions	***	•••	***	***	ib
Gonoral agricultural	condition	i	***	***	iö
Principal crops	***	***	•••	•••	16
Improvoments in ag	ricultaral	practice		•••	69
Cattle	***	**	***		ib
Irrigation	•••	***	***	***	170
Forests				***	48
Minerals			•••		45
Manufactures	***				fo
Commerce	***				ii
Railways and road		***			15
Famine			***	•••	iŏ
Administration			***	•••	10 15
Civil and criminal		***	•••	***	•
Lond royspue	•	••••	***	•••	ib
Local and manicip		***	***	***	71
Police and inils	-		***	***	6
Education	***	***	***		ъ
Madical		***		***	72
Vaccination	~	•••	***	***	iŏ
Bibliography	***	***	•••	***	iō
Kolhan	•••	***		844	ib
Porahat		•••	•••	***	10
Ohaibasa.				***	74
Chakradharpu		***	***	***	75
Garanda	IF	***	•••	***	ib
Cross-references				••	iš
a, and of eventors	fret ymbat	137 GERGE	sest only)	***	76



CHOTA NAGPUR DIVISION.

Chota Nagpur Division.—A Division of Bengal, lying bleed al? 58 and 22 49 N., and 83° 20' and 86° 54' E. The head-quarters of the Division are at Ranchi, and it includes 5 Districts with men, population and revenue as shown below:—

Distrator.			Area in square miles,	Population in 1901.	Demand for land revenue and cesses in 1908-04, in thousands of rupeer.
Nazüribügle Rüceld Palümau Münhhüm Singhbleim	***	1111	7,021 7,128 4,914 4,247 8,801	1,177,061 1,187,925 619,600 1,301,864 618,679	2,46 1,05 1,71 2,22 1,64
	TOTAL	***	27,101	4,900,429	9,68

Norm.—In the report of the counts of 1901 the even of Singhbhüm was shown as 2,755 square miles. The figure given above was supplied by the Surveyor-General.

After the suppression of the Kol rebellion of 1831-82 this tract was exempted by Regulation XIII of 1833 from the operation of the general laws and regulations, and every branch of the administration was vested in an officer appointed by the supreme Government and styled the Agent to the Governor-General, South-West Frontier. In 1854 the designation of the Province was changed to Oliota Nagrur by Act XX of that year, and it has been administered since that date as a non-regulation Province under the Lieutenant-Governor of Bengal, the Isle of the object executive officer being at the same time changed from Governor-General's Agent to Commistence, and that of officers in charge of Districts from Principal Assistant to the Governor-General's Agent to Commissioner, also generally commissioner. The Commissioner also exercises general control over the small Chota Nagpur States of Kharsawim a Savatkelli.

The so-called Chota Naggur platean extends beyond the limits of the Division into the Tributary States of Chota Naggur and Orisca on the south-west and south, and through the South Parganas to the Gauges on the north-east, while its

outlying fringes stretch out into the scath of the Patna and Bhagapur Driations on the north and his the west of the Burdwin Division on the east. The word platous is used, for want of n bottor designation, for this tract of clevated country, and is not intended to unity that the sense referred to forms on open table-land like that to the north of Caps Colony. There are three plateaux in the stricter acceptation of the term, one in Rancht and two in Haszintigh. Elsswhere the country is often very broken, and there are namerous parges or groups of steep kills intersected by deep mrines and occasionally by open valleys. The geological formation is greates, frouly interbolical with microcouns, sittients and horaldcodie schist, passing into transition or metamorphic rocks in West Bougel and South Bibler.

The recorded population increased from 8.147.699 in 1872 to 4.225.989 in 1881 and to 4.628.792 in 1891, but the earlier. enumerations were defective. The density is 181 persons to the square mile, compared with 438 for Bengal as a whele. In 1001 Hindus constituted 68 to per cent. of the population, Muhummadans 5.7 per cent., Christians (of whom all except 1,191 were natives)
29 per cent., and Animists 22.7 per cent., while among the remainder were \$53 Jains. The Division is the home of manarous non-Aryan tribes who were never properly subjugated either by the early Aryan invadors or by the Pathin and Mughal emperors. or indeed by any outside power until the advent of the British. They have thus preserved in their mountain fastnesses an individuality in respect of tribal organization, religion and language which their congeners in the plains have long since lost. They are gradually abandoning their tribal dialocts in favour of the nearest Aryan ferm of speech, Hindi to the north and west, Oriva to the south and Bougali to the east, but a large number still speak their own languages, which are divided by philologists into two great families, the Munda and the Drovidian. This distinction, however, is merely an indication of some carlier political condition and does not represent any corresponding divergence of physical type. The most distinctive of the tribes represented are the Santals (see Santal Parcanas) in Haviribagh, Manbhum and Singhbhum, the Mundas in Ranchi, the Onsens in Ranchi and the Tributary States, the Hos in Singhbhim, the BRUMITES in Manbhum and Singhbhum, and the Conds in the Tribatary States. A. remarkable increase in the number of Obristians took place during the decade ending in 1901, due principally to new conversions in Ranchi, where Christians numbered 124,953 compar. ed with only 75,693 ten years previously. The German Lutheran missionaries have here met with great success, and the District in. also a great centre of Roman Catholic missionary enterprise. containing three-fifths of the total number of their converts in . Bengal.

The Division contains 13 towns and 23,876 villages. RANCHI (25,970) is the only town with a population exceeding 20,000 inhabitants. Chota Nagpur possesses great mineral wealth, aspecially in respect of cool, the principal fields being the Giridih coal-field in Hazaribagh, the Therria coal-field chiefly in Manbhum, and the Daltongani coal-field in Palaman. The output of coal and coke in 1903 was 3,329,000 tons. Mica is mined in Haziribigh, and 547 tons were produced in 1903. The Jain temples at PARASNATH HILL yearly attract thousands of pilgrims; other interesting antiquities are the ruins of a fort at PANCHET and of temples at several places in the Manbhum District.

Hazaribash District.-North-eastern District of the Chota Boun-Nagpur Division of Bengal, lying botween 23° 25' and 24° 49° N., darles, and 84° 27' and 80° 34' E., with an area of 7,021 square miles configura-It is bounded on the north by the Districts of Gays and and ther Monghyr; on the cast by the Santal Parganes and Manbhum; exatem,

on the south by Ranchi; and on the west by Palamau
Hazaribagh, which, like the rest of Cheta Nagpur, consists to a great extent of rock and ravine, lies towards the north-eastern extremity of the chain of high land, sometimes a range of hills and sometimes a cultivated platean, which extends across the continent of India, south of the Narbada river on the west and of the Son river on the east. It is divided naturally into three distinct tracts: an andulating plateau, with an average elevation of about 2,000 feet, extends from the west-central boundary of the District measuring about 40 miles in length from east to west and 10 miles from north to south; a lower and more extensive platean, with a general elevation of 1,300 feet, covers the north ond east of the District, graduelly sinking towards the east; while the central valley of the Damodar river, with the country watered by its numerous feeders, occupies the entire south of the District. The principal peaks of the southern plateau are Baragai or Manano Buau (3,445 feet above the sea., Jilinga (3,057 feet), Chendwar (2,516 feet), and Aswa (2,463 feet). Detached hills are Lucu (3,203 feet), Manual (2,487 feet), and in the cast of the District, on the boundary of Manblom, the woll-known Parassaru Hill, 4,480 feet above the son. In the northern plateau is the MAHABAR range, rising to an elevation of 2,210 feet above sea-level. The DAMODAR, which rises in Palamau, is the most important river of Hazaribagh, through which it flows in an easterly direction for about 00 miles, Its alias doubler at this portion of its course are the Garni. Habaro, Naikāri, Maramarhā, Bherā, Kunur, Khanjo, and Jamuniā, and with its tributaries it drains in this District an area of 2,840 square miles; it is everywhere fordable during the dry season. The only other important river, the BARAKAR,

rises on the northern face of the central plateau and flows in an ostenty and south-easterly direction till, after draining an area of 2,005 square miles, it leaves the District form—the boundary between Mandelin and the Santial Pargaman. The north-west of the District is drained by the Jihiki and Chalca, which unite a short distance outside the boundary, by the Mohani, Lishian and Machan, which flow northwards into Gays, and by the Dhadhar, Tilaya and Sakri. The Ajay rises on the eastern boundary of the District, two of its tributaries draining part of the Griddin subdivision, while on the south the Suaamanesma forms the District boundary for whom 15 miles.

(leology.

A description of the geology of Haskillagh District would practically be a summary of the character of ony Archeon area; the old folepathic genisors, wall bended, and with the composition of typical ignoous rocks, are associated with schiators increased with ignoous metter. Among these are intrustry massed grantic which, under pressure, here usesmed a guisseous structure and, on account of the way in which they stand up as small hills of rounded humanocks, have semestimes bour referred to as the "down guisse." They rise up in the midst of bands of schistly, which are out in all directions by value and sad gegenatic. Patches of Gondevian rocks occur, some of which contain the coal for which the District is well known."

Belany.

The narrower valleys are often terraced for rice cultivation. and these rice fields and their margies abound in marsh and water plants. The surface of the plateau between the valleys, where level, is often bare and rocky, but where undulating is usually clothed with a dense scrub jungle in which Dendrezalamus strictus in ofton prominent. The steep glopes of the phate are covered with a done forest mixed with many climbers. Sal (Shoren robusta) is grogarious; among the other noteworthy species are species of Buchanania, Semecarpus, Terminalia, Cedrela, Carria, Butea, Banhinia, Acacia, Adina, which those forests share with the similar forests on the lower Himilayan slopes. Mixed with these, however, are a number of characteristically Central India trees and shrubs, such as Cochlospermum, Soymida, Bosnellia, Hardwickia and Bassia, which do not cross the Gangetic plain. One of the features of the upper edge of the giats is a dwarf palm, Phoniz acquis; striking too is the wealth of scarlet blossom in the hot wonther produced by the abundance of Buten frondosa and R. sangerba, and the mass of white flower.

[•] The mice deposits of India, by Holland in Mem. Gool, Surv. Ind., vol. xxriv, not il (1992); The ignosus recks of Gridth and their contact effects, by Holland and Essies in Rec. Gool. Surv. Ind. vol. xxrib; partir (1993).

dong the shils in November displayed by the convolvulaceoncimber Perana paniculate.

The jungles in the less cultivated tracts give shelfer to tigere, recobens, leopards and several varieties of deer. Welves are very

common, and wild dogs hunt in packs on Parasuith Hill.

The temperature is mederal except during the lat weather commonths of April, May and Jane, when weeterly winds fram Geriral as transmission high temperature with very low humility. The mean is also temperature increases from 76° in March to 85° in April and May, temperature increases from 76° in May 10° in May and the mean maximum from 84° to 76°. During these ments intuitity is lower in Chota Maggar than in any other part of Heagal, latting in Hardridgh to 41 per cent, in March and 35° per cent, in April, In the wider reason the mean temperatures is 160° and mean similar inom 51°. The average annual radiability is 10° in the control of the 10° in the 10° in March 10° in 1

September.

The whole of the Chota Nagpur Platent was known in evry H r m. history as Iharkand or "the forest tract," and appears never to have been completely subjugated by the Muhammadam. South tradition relates that one of their earliest settlements was at Phina Champs in Haziribich and that their fort was taken by bailed thrahim Ali, a general of Muhammed bin Tughlab, and pixeed in charge of a Mahammahan officer, elect 1310. There is no authentic record, however, of any invasion of the country till Akbar's reign when it was overron by his general. The Raja of Cho's Nagpur became a tributary of the Mughal government! (1585); and in the Ain-i-Albert Chiai Champ's was shown as a pargana belonging to Bibir arreval to Rs. 15,500, and liable to furnish 20 horse and 660 foot. Sair quently in 1616 the Raja fell into arrears of tribute; the governor of Bihar invaded his country; and the Raja was endured and removed to Gwalior. He was released after 12 years on agreeing to pay a yearly tribute of Its. 6,000, and his country was considered part of the Satah of Biber. From the fact that the ancestor of the Rajos of Ramgarh (which included the present District of Hazardrigh) is said to have received a grant of the estate from these Naghanei Rajas, it appears that the District formed part of their dominions. The inroads of the Muhammadans were, however, directed not against the frontier chiefdom of Ramgarh but against Kokrah, or Chola Nappur proper, to which they were attracted by the diamonds found in its rivers; and though the Raiss were reduced to the condition of tributaries by the Mughal viceroys of Bengal, they were little interfered with so long as their contributions were paid regularly. Even so late as the reign of Aurangseb the allegiance of the chiefs of this tract must have been very loose, as the Jharkand route to Bengal

is said to have been liftle used by troops on account of the sayage manners of the mountaineers. About this time the first Rain of Kunda, who was a personal gervant of the amperor, received a rent-free grant of the pargana on condition that he guarded 4 passes from the inroads of Marathas, Bargis and Pindais; and in 1765 Cheta Namur was ceded to the British as part of Bihar The British first came into contact with this tract in 1771 when they interrened in a dispute between one Mukani Singh, the Raja of Ramgarh, and his relative Toj Singh, who was at the head of the local army. The latter, who had claims to the estate, went in 1771 to Paina and laid his case before Captain Comac, who undertook to assist him and deputed for the purpose a European force under Lieutenant Goldard. Mukund Singh fled after a mete show of resistance, and the Ramgarh estate was made over to Tai Singh subject to a tribute of Rs. 40,000 a year, Lioutenant Goddard's expedition, did not extend to the Kharakdih pargana in the north-west of the District. Six years carlier (1765) Mad Narayan Dec, the old Hindu Raja of Kharakdih, chief of the gadinale or guardians of the passes had been driven from his estate by the Musalman amil or revenue agent, Kamder Khan, who was succeeded by Ikbal Ali Khan, The latter was expelled in 1774 for tyranny and mismanagement by a British force under Captain James Brown. The exiled Raje of Kharakdih, who had exerted his influence on the British side. was rewarded with a grant of the maintenance lands of the Raj. Possibly he might have been completely reinstated in his former position, but in the confusion of Muhammadan misrule the phatuals had grown too strong to return to their old allegiance, and demanded and obtained separate settlements for the lands under their control. In the sangue granted to them by Captain Brown they are recognised as petty feudal chiefs, holding their lands subject to responsibility for arime committed on their estates, They were bound to produce criminals, and to refund stolen property; they were liable to removal for misconduct and they undertook to maintain a body of police, and to keep the roads in rensir.

In 1780 Hamparh and Klarabith formed part of a British District named Ramana, administered by a civiliun, who held the offices of Judge, Magistate and Collector; while a contingent of neitro instarty, known as the Rampach heltilion, was stitued at Hambach, under the command of a European officer. This District was dismembered after the Kall insursection of 1831-38, whose mader regulation XIII of 1833 parts of it were transferred to the aurrounding bistricts, and the remainder, including the progress of Kharabdilla, Kendi and Kundi; with the large estate of Ramgach consisting of 16 perspense, which compose the present area of the District, were formed into a District under the name of

Hazaribaph. In 1854 the title of the efficer in charge of the District was changed from Principal Assistant to the Governor-

General's Agent to Deputy Commissioner.

The most important archivological remains are the Juin tem-archerplem. It is a transmith. Buddhist and Juin remains axist on Kuruna bern Hun. in Dantian pargum, and a temple and tank to the west at the bill deducted the Kuleswart, the goddess of the bill, era visited by Hinds pilgrims in considerable numbers. The nuty other romains worthy of meetion are 4 rock temples on Manum hill, one of which bears the date 1746 Sarmat, rains of temples at Satgawan, and an old fort which occupies a strong defensive position at Kurse.

At the census of 1872 the population recorded in the present the polistical area was 771,875. The contensation was, however, defece Plevis, and the census of 1881 showed a population of 1,104,742, which rose in 1,164,521 in 1891 and to 1,177,601 in 1991. The enablases of the increase in the last decade is attributable to the growing volume of conjection to Assam and claswhere, and to the heavy death-rate following than famine of 1897, clitchly from force and cholera, which are obveys the most provalent course of mortality in the District. The salient statistics of the census of 1991 are reproduced above.

NUMBER OF tree fa ECS-Division. ween 1101 to read and 1902. Sud write Messellägh Girtölk 6,019 E,002 ŝ 8,447 \$63,166 111 -0.5 +4.0 11,14 1413 417,707 41.8 82,525 1,177,901

The towns ore Hazahinaeli, the head-quarters, Chatha and Grinden. The population is greatest in the week, in the valley of the Barkar river, where there is a fair extent of level country and the coal mines support a considerable number of labourers. The country west and south-west of the central plateau consists mainly of hill and ravine, and has very low inhabitants. The population declined during the decade ealing in 1901 in the centre of the District, where recruiting for tes gardens was raust active, but in in Grirdin sub-division there was a general increase, the growth being most marked in Giridin theigh, where the cool mines at the Dast Indian rallway attract a steadily increasing number of labourers. The hardy moderical tribes are remarkable for their securities and the

climate is healthy, but the soil is barron, and the natural increasein the population is thus to a great extent discounted by emignifica. It was hence that the Santals callied forth about 70 years ago to people the Daman-i-koh in the Santal Parganas. This movement in its original magnitude has long since died out, and the bulk of the present emigration is to more distant places, Assam slow containing nearly 69,000 natives of this District. The Magain dialoct of Bihāri is spaken by the bulk of the population, but Santali is the vernacular of 78,000 persons. Hindus number. 954,105 or Si per cent, of the population, and Mohammadan 119,656 or 10 per cent.

оссиря-Lions.

Their The most numerous Hindu essles are Ahirs or Golds castes and (138,000) and Bhuiyas (29,000); many of the Bihar castes are also well represented, especially Kurmis (76,000), Tells (49,000), Roiris (47,009), and Chamers (44,000), while among other castes Ghatwals (40,000), Bhogtas (85,000) and Turia (23,000) are more common than elsewhere, and Soldin (12,000) are peculiar to the District. Most of the Animists are Santals (78,000), and the bulk of the Musalmans ore Jolinis (82,000). Agriculture supports 80.7 per cent of the population, industries 0.1 per cent., commerce 0.2 per cent. and the professions 0.8 ner cent.

Obristico Milesions.

Of 1,163 Christians in 1901 about three-quarters were native. Mission work was begun in 1853 by the German Evangelial Lutheron Mission, but was interrupted by the Mutiny. 1862 another mission was founded by the same society at Singhan near Hazaribagh, but in 1868 an unfortunate split took place, and several of the missionaries went over to the English Society for the Propagation of the Gespel. The work carried on by the German mission is chicily educational. The Free Church of Scotlind opened u branch of its Santal Mission at Pachamba near Girdin in 1871, and maintains a dispensity and schools: their evangelistic work is chiefly umong the Santals. The Dublin University Mission, established at Hazāribāgh in 1892, maintains a boys' high school, umer primary school and First Arts college, in addition to disponsarice at Hazaribagh, Johnk and Potarbar, but

'cloners) serieutturn conditions.

it has not been very successful in making conversions.

The most fortile land lies in the valleys of the Damedar and the Sakri, the agricultural products of the latter resembling those of the adjoining Districts of Bilar rather than these of the neighbouring parts of Obota Nagpur. In Rhamkdih the hollows that his between the undulations of the surface are full of rich alluvial soil, and present great facilities for irrigation. but the crests of the ridges are, as a rule, very poor, being made up of sterile gravel lying on a hard sub-soil. In Ramgarh the sub-sell is light and open, and the surface is composed of a good ferruginous loam; while many of the low hills are conted with

a tish dark vegetable mould. The beds of streams are frequently banked up and made into one long marrow rice field. For other crops than rice the soil receives practically no preparation beyond ploughing. Fedirers of the crops are due to had distribution of the smirall, never to its completa failure; the soil does not retain water for long, and a break of ten days without rain is sufficient to harm the rice crop.

The salient agricultural statistics for 1993-04 are shown chief agricultural statistics for 1993-04 are shown chief agricultural statistics for 1993-04 are shown chief agricultural statistics for 1993-04 are shown chief

cultural statistics and prin-

SUB-DIVINIO	SUB-DIVISION.		SUB-DIVISION. Total.		Cultivated.	Cultumble waste.	Forests.	
Hasātībāgh Girīdih	=	6,019 2,002	1,616 678	1,266 805	64 25			
Toran .		7,021	2,494	1,771	89			

Rice is the most important crop. Govd or early rice is sown broadcast after the first fall of rain in June, und is respect about the end of Angust. Aghani or winder rice is sown in June, und reaped in November or December; it is either sown broadcast or transplanted. After rice by far the most important crops are mitte and marul. Other food grains are goodfi, urd, brant, reher, burth, gram, wheat, baries and histeris; of other food crops the most important are sugarcance, machiff and various vegetables. Oilseeds are extensively grown, consisting obisity of sarpits, iti, repeated and linesed, while unone other products may be mentioned optim, ection and rems, a jungle roof, used for the manufacture of pacience. A little test is still grown, but the industry is rapidly dying out; in 1903-04 there was only one ton garden which date an output of \$2,700 there

The area under cultivation is greatenly being extended by Improveterrating the slopes and embasking the bellows, and by bringing reads in under the plungh the tops of ridges. The people here no idea of adopting improved agricultural methods, though they are time willing to make use of seed given to them, and cultivaten near Hazaribeth and Grifdih are beginning to grow English vegotibles, such as caulifidowers and tomators. Leans amounting to Rs. 61,000 were given during the famine of 1897, and Rs. 99,000 was advanced in 1800-01 under the Agriculturists Leans Adv in

consequence of a failure of the crops. Little advantage has been taken of the Land Improvement Longs Act

The breed of cettle is poor. The cettle are ordinarily grazed Cattle.
in the jungles; land is set spart for pasture in villages in which
here is no jungle, but the grass is poor, and the cettle get no

per fodder except just after harvest.

10

The average irrigated area is estimated at 393 square miles. Irrigation is carried on by means of bandles and abore, as described in the article in Gava District. Well water is used only for the

Foresta.

горру. Hazāribagh confains 58 square miles of reserved, and 33 square miles of protested, forest. The Kedarma reserve, which is the most important forest tract, covers 46 square miles on the scarp of the lawer plateau, the elevation varying from about 1,200 feet near Kodarma to about 500 feet on the Gaya boundary. The predominent tree is sal (Sharea robusta), but there are few : trees of any size, most of the larger ones having been out out before the forest was constituted a reserve in 1880. Bamboos are scattered throughout the reserve and the other principal species ore varieties of Brenisalia, Banhinia and Fices, Bassia latifolia, Steronlia urena, Casna fielula, Mangifera indica, Semecarpus anacardium, Butta frondosa, Lagerstroemia partiflora, Woodfordia floribunda, Eugenia jambolana and Phomes acquile. The minor products are thatching grass, sabei grass (Isohamum angustifolium), mahua flowers, (Bassia latifolia) myrabolams and mica; none of these except mice are at present of any great importance on account of the distance of the forest from the railway. Owing to excessive grazing and outting, the protected forests contain no timber of any size. In 1903-04 the total forest rovenue was Rs. 14,500, of which Rs. 10,000 was derived from the rent for mica mines.

Mineral

From the voins of pegmatite in the gnaiss is obtained the mice resources. which has made Hazāribāgh famous. The pegmatites have the composition of ordinary granite, but the crystals have been daveloped on such a gigantic scale that the different minerals are easily separable. Besides the mice, quartz and felspar, which form the bulk of the pegmatite, other minerals of interest, and sometimes of value, are found. Beryl, for instance, is found in large crystals several inches thick; school occurs in nearly all the veins; also cossiterite (tin-stene), blue and green tourmaline. Lepidelita and fluor spar occur near Manimundar 124° 37' N., 85° 52' E.); columbite, which includes the rare earths tantalum and nichium, exists in one or twe places; and spatite, a phosphate of lime, is found in the Lakamandwa mice mine near Kodarma. Mice in the form of musecvite is the only mineral which has been extracted for commercial purposes. It is worked along a belt which runs from the corner of Gaya District across the northern part of Hazaribagh into Menghyr. Along this belt about 250 mines have been opened. With the exception of Bendi, which is being tested by moans of systematic driving and einking, these are all worked by native methods. The "books" of miss are of various sizes up to 24" by 18" by 10", the more common being about 8" by 4" by 3". The usual practice is to prospect the surface during the rains for

these "hooks" or indications of them, and then work the shoots or patches during the dry weather. The pumping and winding are done by hard. Tha total ontput from 288 mines worked in Hastringh in 1903 was 563 tons, valued at 9½ laiks. The average number of persons employed deily was 5,578, the average daily wages being for a man 2½ to 4½ cansa, for o woman 2 annas,

and for a child I to 15 annas. The deposit of cassiterite takes a bedded form conformable to the foliation planes of the gnoisses and schists in the neighbourhood of Naranga (24° 10' N., 86° 7' E.), in the Palgonj estate, 10 miles west of the Giridih coal-field. Unsuccessful aftempts were made to work this deposit by a company which ceased operations in 1898, after having carried down an inclined shaft for over 600 feet along the bed of ore. Cassiterite has also occasionally hean obtained in mistake for iron ore in washing river sands, and the native iron smelters have thus obtained tin with iron in their smelting operations. Lead, in the form of n dark red carbonate, has been found of Barbamasia (24° 20' N., 86° 18' E.) in the north of the District. Similar material has been found in the soil at Mahandadih (24° 22' N., 86° 20' E.), Khesmi (24° 25' N., 84° 46' E.), and Nawada (24° 25' N., 84° 45' E.). Argentiferous galena, associated with copper-ores and zino blende. occurs on the l'atro river, a mile north-north-east of Gulgo. An unsuccessful attempt was made in 1880 to work these ores. sulphide of lead, galena, has also been-obtained in connection with the concer-ere deposits of Barnganda. A deposit, which has been known since the days of Warren Hastings and has been the subject of many subsequent investigations, occurs near Hisatn (23° 59' N., 85° 8' E.); an analysis of the ore made by Piddington showed the presence of antimony with the lead. The most noteworthy example of copper cres occurs at Baraganda in the Palgani estate, 24 miles south-west of Giridih. In this area the lead and zino ores are mixed with copper pyrites, forming a thick lode of low-grade ore which is interbedded with the vertical schists. Shafts reaching n depth of 380 feet were put down to work this lode by a company which commenced operations in 1882, but apparently through faulty management the undertaking was not successful and closed for want of funds in 1891.

Lohars and Kols formerly smelted from in this District, but wing to forest restrictions and the competition of imported English iron and steet, the industry has practically died out. The crow used was principally magnetite derived from the crystallino rocks. Hematitie is, however, also obtained from the Barker slage of the Goodwine rocks of the Karapura field, and clay iron stone occurs in a higher stage of the Dismodar serties in the same stage.

The most conspicuously successful amongst the attempts to develop the mineral resources is in a little coal field near Giridik .: The small patch of Gondwana rocks, which includes the coal in? this field, covers an area of only 11 square miles, and includes. 34 square miles of the Taloher series, developed in typical formwith boulder beds and needle shales, underlying sandstones whose age corresponds with the Barakar stage of the Damodar series. The most valuable soom is the Karbarbari lower seam, which is soldom less than 12 feet in thickness and is uniform in quality, producing the best steam coal reised in India, more than two thirds of it consisting of fixed carbon. This seam persists over an area of 7 square miles and has been estimated to contain 113 million tons of ceal. The Karharbari upper seam is also a good coal, though thinner, and above it lie other sooms, of which the Bhaddoch main seam was at one time extensively worked. The total coal resources of this field are probably not less than 124 million tone. of which over 15 million have been relacd or destroyed. Like practically all the coal-fields of Bengal, the Gondwins rocks of Giridih are pierced by two classes of trap-dykes: thick dykes of basaltic rock, which are probably fissures filled at the time at which the Rajmahal lava flows, were poured out in upper Gondwans times, and thin dykes and sheets of a popular form of peridetile, remarkable for containing a high percentage of apalite, a phosphate of lime. This rock has done on amount of damage amount the cools which cannot easily be estimated, as besides cutting across: the coal soums in narrow dykes and coking about its own thickness of coal in both directions, it spreads out occasionally as shocts and ruins the whole or a large section of the seam over considerable ntons.

In this field 9 mines employed in 1903 a daily average of 10,091 hands and had an output of 767,000 tons, "Ino East Indian Railway Company, by whom the bulk of the coal in this field is raised, work it for their own consumption, and have invested

15 lakhs in their mines.

The miners are of various earles, but Santilis and the lower cartes of Huntus such as Bheiyts, Italia, Ghitwali, Chanaria, Dosdibs, and Rajwins, prodominate. The daily wages paid in the mines worked by the Best Indiam. Balway Company are: for cad-cutters 6 to 8 annas, horse drivers under ground 4 annas, women (Indies ground) 8 to 4 annas, fitters 8 annas to 8 1.8-0; and for coolies working above ground, men 24 annas, and 4 annas, women 11 to 2 mans, and chifforn 15 to 15 annas. The shaft, the despect to India, has a dayth of 649 feet, and nearly all the deal is.

This is the only field in the District which is regularly worked, but other patches of Gondwinz rocks are also coal bearing. A patch near the village of Ithhori, 25 miles north west of

Hazáribágh, includes about haif a square mile of the Barákar stage lying on a considerable area of Talchers. There are three seams containing possibly about two million tons of inferior coal. The Bekiro and Karenpura fields lie in the low ground of the Damodar river at the foot of the southern scarp of the Hazaribagh plateau. The Bokaro field commences 2 miles west of the Jherris field, and is likely to become important with further railway extensions. It covers 220 equare miles and includes eral seems of large size, one of 88 feet thick being measured. The coal resources of this field are estimated to aggregate 1,500 million tens. In the Karanpara area a smaller tract of 72 square miles has been separated from the northern field of 472 repare miles through the exposure of the underlying crystalline rocks. There is a large quantity of fael available in these two fields; ie the smaller there must be at least 76 million tens and in the northern some 8,750 millions. In the Ramgarh ecol-field to the south of the Bekare field the rocks are so faulted that it may not be profitable to mine the coal."

Cotton working is carried on by thin Jolahia, but only the Areasol conrect cloth is turned out. A few charp wooden toys are made parties by Ilhardia, and blanked by Garrie, while agricultured implement three, and cockine threshes we mande the colly smelled iron

The chief imports are food grains, sell, kerestino cil, cetten Cemerre trist and European cetten piece-goods, and the chief exports cell with the case docks. Of the food grains, which form the built of the imports, rice comes chiefly from Manbhim, Bendwin and the Sanfal Praganas, wheat from the Punjab and the United Provinces, and grain from Manghtyr and Patan; the other imports come from Calculta. The coal and coke exported by rail in 1903-34 amount, ed to 495,000 fons, of which 86,000 fons went to Idecutia, 195,000 tents to other parts of Bengal, 914,000 tents to the United Browners, and the remainder to the Punjah, Content Provinces Rejustina and Contral India. Minor exports are nice, catedon, whose grass, lose, relow and blue. Harstnigh, Girldin and Chieff are the principle mate and form the centres from which imported goods are distributed by petty traders. The bulk of the

⁶ The Girlilli confeigl, by Saire in Rec. Gref. Ferr. Ind., vol. xrvii, part III, 1954; The Bakkire confeiglt and the Margarit credefold, by Ruches in Mars. Goods Ferr. Ind., vol. vil. part iII (1959); the Newmark credefold, by Ruches in Gref. Sarc. Ind., vol. vil., part iII (1959); the Newmark credefold, Nuc. Gref. Goods vol. vil., part iII (1971); by Haff yield. Choice credefold, Nuc. Gref. Green vol. vil., part iII (1972). As private copper and tit, see Gool, notes on M. Harder in July by Hall is the Green Sarc. And, vol. vil., part (1974), and The superpot and the Choice Choice Choice. And, vol. vil., part (1974), and The superpot and Choice Choice. And we will part (1974), and The superpot of Choice Choice. March vil. part (1974), and The superpot of Choice Choice. And the Choice Choice Choice. And the Choice Choice. All the Research Choice. And the Choice Choice. And the Choice. And the Choice Choice. And the Choice. And th

District at Giridis, but a large amount of goods is carried on pack

Railways and roads.

The only railways at present topen are the short branch line-connecting Girdin with the East Indica main line at Maddanyan and the Gaya-Katzasgarh line-recently controled, which rans through the north-cast of the District. The District bern danisation (1930-39) 44 miles of metalled and 521 miles of unmotalled roads, besides 336 miles of village tracks. The most important roads, however, are those maintained by the Public Works department, amounting to 201 miles in length (193 miles of the Control of the Control

s'amike,

Giridih to Dumri, the aggregate length of which is 82 miles. . . The District was affected by the famine of 1874; since then the only severe famine was that of 1897, when distress was goneral over a broad belt running north and south through the District, the thans most affected being Barby, Kodarma, Bagodar, Gumia, Ramgarh, Mandu and Hazaribigh. Relief works were opened but were not largely attended, owing partly to the newillingness of the wilder tribes to ongage in unaconstomed forms of labour, and partly to a fear that the accordance of famine rates of payment would tend to lower wages permanoutly; a good deal of employment, however, was afforded by the District board, and gratuitous relief was given to beggars and destitute travellers. The daily average number of persons employed on relief works was highest (1.728) in May, while the number in receipt of gratuitous relief reached its maximum (6,836) in June. The exponditure amounted to Rs. 73,000, including Rs. 26,000 spent on gratuitous rollef, and losus were granted to the extent of Rs. 51,000.

trict diviu and I.

For general administrative purposes the District is divided; into 2 sub-divisions with best-questers of Hazannanov and Guaruci. The staff at Huzzinkey subordinate to the Deputy Commissioner consists of 3 Deputy Magistrate-Collectors, while the sub-divisional officer of Gritish is assisted by a sub-diputy collector.

Civil and eritoinal justice. The chief civil court is that of the Judicial Commissioner of Ohota Narpur. The Deputy Commissioner coursiess the powers of a Subordinate Judge, and a Subordinate Judge comes periodically from Illandi to assist in the directed of cases, thirton original exits are heard by 3 Munist's citing at Incatribagh, Charle and Civilah. Reat suits under the Chole Narpur Reasury and corticled by a Deputy Margietate Collector at Harderibedy by the Munistry, who are invested with the powers of normal power of the Chort Collector of Harderibedy by the Sub-divisional

officer of Giridih; appeals from their decisions are heard by the Departy Commissioner or the Judicial Commissioner of Chota Nagpur. Oriminal cases are tried by the Departy Commissioner, the sub-divisional officer of Giridih and the above-mentioned Departy and sub-depuly magistrates, and by the Munsife of Chetra who has been invested with eccond class powers. The Departy Commissioner possesses special powers under section 34 of the Oriminal Procedure Code, and the Judicial Commissioner of Oneia Nagpur disposes of appeals from magistrates of the class and holds resions at Inaxiribigh for the trial of cases committed to his court. Harirbigh is the least criminal District in Obdat Nagpur, and crime is computatively fight.

In 1830, the first year for which statistics are available, 85 Laut separate estates pair a land revenue of its, 13,000. The immiter revenue, of estates increased to 244 in 1870-71, but after that date a number of the smaller estates were amalgameted with others and the total number fell in 1900-04 to 157 with a demand of 153 lakks. Of these estates, 72 were permanently settled, 82 were temporarily estitled, and 3 were held direct by Government.

In the Hazaribagh District the eldest son takes the entire estate and provides for the other members of the family by assigning them smaller holdings as maintenener grants. There is thus no tendency to the excessive sub-division of estates which is found in Bihar. Besides these maintenance grants, signs to ghairals, priests, servants and others are common. The only unusual form of jager is one known as puter patradit, which remains in the family of the grantee until the death of the last direct male heir, after which it reverts to the parent estate. The incidence of revenue is very low, being R. 6-1-4 per cultivated nere, or only 8 per cent. of the rental, which is it. 1-2-t. The highest rates are replied from ties lands, which are divided into three main classes: gaira, the rich olluvial lands between the ridges; singd, the land higher up the elopes; and bad, the highest land on which rice can be grown. The rates, which are lowest in the central plateau and highest in the Sakri valley, vary for gaira land from Rs. 3-10-8 to Re. 5-4-4 per nere inverage Rs. 4-5-4); for singl land from Rs. 2-10-8 to Rs. 4 (average Rs. 3-10-8) and for bad land from R. 1-10-8 to Rs. 3-10-8 (average Rs. 2-2-8). Other lands are classified as bars or abartari. the well manured land situated close to the village; baharbars, fairly good land situated farther from the homestead; chird, land set apart for growing paddy scedlings; tan, barron land on the tops of the ridges; and farri or rich land on the banks or in the bods of rivers. For these the ryot usually renders predial services in licu of rent.

Villago lands are of four kinds, Munjhihas is a pertion of the best land set apart for the immediate head of the village. It is frequently sublet, sometimes at a each rent, but more often on the adulation system under which each renty takes built the produce. When held kids, it is cultivated by the rysh for the proprietor, the latter supplying the seed and a light need on the days on which the villagers are working for the Jiban is land in which the rysts have company rights are the state of the rent produced waste land, and the ryst and his descendants have a right of company, aring rent, at only half the rate providing in the neighbourhood for jiban lands. Uther land is that sufficiently promate, and the ryst and his descendants have a right of the rent will be company and the right of the rent providing in the neighbourhood for jiban lands. Uther land is that sufficient by framents—will. The rents of jiban and where inches or evenly payable in cash, but in the Sakri valley the system of payment by assessment or division of the produce is common. The fullowing table shows the collections of land revenue and total revenue, under the principal heads, in thousands of process—

		1880-91.	1800-01,	1900-01.	1903-04.
Land revenue	: 3	1,16	1,95	1,81	2,38
Total revenue		8,01	4,08	8,49	0,76

municipal gorona: tagnt

d Outsido the municipalities of Harantanent, Charan. and Granum, local affairs are managed by the District board. In 1963-04 its income was Ra. 95,000, including Ra. 50,000 denived from rates, and the exponditure was Ra. 1,01,000, the chiaf item being Ra. 50,000 specto on civil rocks.

Police and fails.

and The District contains 18 police stations and 80 outports, and in 1993 the force vulcovilates to the District Squarimenters of Police consisted of 8 inspectors, 33 sub-inspectors, 64 headcontables and 531 consistence. The Central juil at Haramanou has accommodation for 1,207 prissures, and a subsidiary juil of Gramm for 21. The Haramatory Indoornatory school, here.

accommodation for 357 boys.

Milcuttion is very beckward, and only 26 per cent. of the population (69) andes and 92 females be util read and, write in 1901. The number of pupils under instruction increased from (9.28 in 1882-38 to 1.5967 in 1892-93; in 1890-01 they numbered 14,345, while in 1893-94, 19,440 bays and 20,14 girls were at school, being respectively 19 2 and 22 per cent. of the ohidaren of school-group age. The various missions multiple changes of the basels of the abortgiant tribes. The most notable educational institutions are the Dublin University Mission First, Arts college, and the Reformatory at Hazaribigh. The total number of institutions, public and private, in 1993-04 was 992, instituting the Arts college, 16 secondary

schools, 643 primery schools and 32 special schools. The expenditure on education was Rs. 1,12,000, of which Rs. 38,000 was met from Provincial lunds, Rs. 31,000 from District funds, Rs. 800 from municipal funds and Rs. 23,000 from fees,

In 1903 the District contained 7 disponsaries, of which Metcal. 5 had accommodation for 64 in-door patients. The cases of 37,411 out-patients and 868 in-patients were treated during the year, and 1,570 operations were performed. The expenditure was Rs. 11,000 of which Rs. 1,200 was net by Government contributions, Rs. 2,000 from local and Rs. 2,400 from municipal funds, and Rs. 5,000 from bearings.

 Vaccination is compulsory only in the Hazaribagh, Giridih and Vaccina-Chatra municipalities. In 1903-04, 41,000 persons or 86 per tion.

thousand of the population were successfully vaccinated.

(Sir W. W. Hunter, Statistical Account of Bengal, vol. Ivi,

1877 : F. B. Bradley-Birt, Chota Nagpur, 1903.]

Haustriber Snh-division.—Head-quatters amb division of hand \$4' 22' and 36' 7' 5., with an area of 6,019 square miles. The sub-division consists of three distinct tracts, e high central phteau, i ower plateau extending along the northern boundary, and the ralley of the Damodar to the south. Its population was 760,164 in 1910, compared with 762,510 in 1891, the demarky being 151 persons to the square mile. It contains 2 towns Hazarinary, its head-quarters (population 15799), and Chatra, (10,599), and 5,440 villages. The eat-division centains some interesting archeological remains, consisting of root temples at Marun, Buddhist incerhiptons at Kuruna Hazarinary.

Grirdih Sub-division.—Restors sub-division of Haskiblagh District, Hangel, bring between 28° 44° and 24° 49° N, and 85° 39° and 85° 34° Le, with an aree of 2,002 square miles. The northern portion of the sub-division consists of billy country and undulating uplands, which merge in the valley of the Banklar on the south and of the Barrivere on the north. To the south there is a second hilly treet, in which Parassaure bill is situated, and along the southern boundary is the valley of the Dimeder. Its propilation was 477,97 in 1801, compared with 401,811 in 1891, the density being 200 persons to the square mile. It contains one town Granius, its head-quarters (population 9,433) and 3,408 villages. Important confisits belonging to the Bast Indian Railway are situated in the mighbourhood of Grirdih town. Persanath hill is a well known place of pligrimage for the Jairs.

Chartz.—Town in the head-quarters sub-division of Hasāribāgh District, Baugal, end one of the principal tride centres of the District, situated in 24° 12° N. and 84° 63° E., about 86 miles north-west of Hazāribāgh town. Population (1901) 10,699. 18 BENGAL.

On the 2nd October 1857; an engagement took place at Claris between H. M. 2 63rd foof, supported by a detachment of Reitory Skhs, and the Rampark. Bestudien, which had mediated it Ranchi, and was marching to join the richel member kers fingh at Blacipur in Shibabbad. The untinees, posted in great force on the hrow of a hill, made a stubborn resistance, the wave offented with a loss of 40 mea and all their supplie. Claris, was constituted a manicipality in 1869: The average income for the decede ending in 1001-79, was Rs. 6,000 mainly from a fax on pursons (or property tax), and the expediture was Rs. 5,000.

Girdin Trwn.— Head-questers of the sub-diricion of the sems mane in the Head-ideal District of Bengel situated in 2º 10° R. and 80° 22° E. Population (1901) 3,433., Origin in connected by a brunch line with the mein line of the Lexi-Indian Rallway of Madhapper and is the centre of the Kathelber coal-field (see Haramann District). Girdin was continued a municipality in 1902. It as evenege income since it comittation best been Rs. 3,000 and its expensiture Rs. 2,000. In 1903-4 the intoner was Rs. 5,000, manly derived from a tarcin. person (or property tax), and the expensiture was Rs. 5,500. The term contains the usual sub-divisional offices and a mob-jell with

accommodation for 21 prisoners.

Hazaribagh Town,-Hood-quarters of Hazaribagh District, Choid Nagpur, Bengal, picturesquely situated in 23° 59'. N. and 85° 22' E. on the high central plateau of the District, at an elevation of 2,000 feet above see lovel, in the midst of a group of conical hills. Population (1901) 15,799. The town is little more than a cluster of hamlets, with intervening cultivation, which sprung up round the former military barns. Heziribagh has been the head-quarters of the civil administration since 1834. The contemment lies south-east of the town. The last military force stationed here was the second battelion, 22nd Regiment; but owing to an outbreak of enteric fever in 1874, which resulted in. numerous deaths, the troops were withdrawn, with the exception of a small detachment, which was chiefly designed to guard against a possible outbreak of the prisoners in the European penitentiary situated here, Sabsequently, on the abolition of the penitentiary, the European troops were entirely withdrawa. Hazaribagh was constituted a numericality in 1808. The average income for the decade ending in 1901-02 was Rs. 11,000 and the expenditure Rs. 10.800. In 1903-04 the income was Rs. 17,900, of which Rs. 5,000 was derived from a taxon persons (or property tax), Rs. 4,000 from a conservancy rate, while the expenditure was Rs. 16,000. The town centains the usual public buildings. The Central juil has accommodation for 1,257 prisoners;

the principal articles manufactured are blaskets and dath. The Hearkhägh Reformatory school has aimes 1882 occupied the Maidings formerly used for the Baropten pontientiary. It is managed by a board subject to the general control of the Director of Publia Instruction, and has exhibe accommodation for 357 boys, who are tangeth weaving, ogriculture, infloring, gardening, corpentry, shoo-making and blacksmilth's work. The chief clined tools in the state of the public way of the public directional institution is the Dublin University Mission Kirst Arks college which was aspend in 1809.

Kuluha Hill — Hill in the heed-queries sub-division of Hasiriash District, Benyal, lying between 25° 16 and 24° 27° N. and 36° 6° E. It abounds with Duddhist relies, and has a temple dedicated to Buddha and lunpressions said to have been made by Buddha's feet. The inscriptions which data between the eighth and 12th centuries appear to he almost exclusively Buddhist, but are in very had order. The Brähmann have appropriated the earced place of the Buddhists, and on the top of the bill is a temple of Durez cellet Kuleswari. Two fairs are

held annually on the hill in Chait and Aswin.

Kunda.—Ruised feet in the head-querters sub-division of Hazáribágh District, Bengal, situated in 24° 18° N. and 84° 30° E. It is in the form of a parallelegum, about 290 feet long by 170 feet broad, with a square central entrance tower on the westfrunt, and lour square comer tower connected by straight battlemented walls with an average height of 30 feet. It was admirably suited for defector purposes, being situated on a tongue of land projecting into a basin surrounded by hills, except on the east side, where it commands a gorpe.

Ingu.—Detached hill south of the central plateau of the Hazārihāgh Districk, Bengal, sikunted in 23° 47' N. and 85° 42' E. in the head-quarter sub-division. The northern face has a bold scarp 2,200 feet in height; and the highest point is 3,203 feet obeyed

the aca.

Mahibar,—Range at hills in the head-quarkers sub-division at Hazaribaly Distrigh, Bongal, cirtending between 24° 10° and 22° 14′ N. and 85° 24° and 85° 30° E. in a general direction each and west far 14 miles. Their sides are steep, but hat entirely scarped; tha top mahilates and has an average breadth of about a mile. The general deration above the Sakri valley is 1,600 feet, and the clovation above the sax at the custom one 2,210 feet. A waterful, Kokukit, 90° feet in height, leops down from the northern foce at the range in Gaya District.

Maludi.—Itill in the head-quarters: sub-division of Habrilagh District of Bengal; ritured in 24° 12° N. and 86° 12° E. about 8 miles from the southern face of the Hartstingh plateau. The bill is 2,43° red: above the see, falling steeply an every side for 800 feet. Four rock-cut temples are situated on the bill. Pachamhā.—Villags in the Ghrāth sinh-dirision of Haathbagh District, Bengal, situaded in 24° 13° N. and 86° 16° R. 3) miss from Giridh ratiway station. Population (1901) 3,510.1 Fashan: his in the head-quarters of the Free Church of Sociland Mission to the Santilla and contains a dispensary and schools. An annual fair

is held here in the month of Kartik.

Parasuath.-Hill and place of Jain pilgrimage, in the east of the Guidil sub-division of Hazaribagh, situated in 23" 58' N. and 86° 8' E., and adjoining Manbhum District, Bengal. The mountain consists of a central narrow ridge, with rody peaks, rising abruptly to 4.480 feet above sea-level from the plains on the couth-west, and throwing out long spurs, which extend towards the Bankar river on the north. A spur to the south-east forms the boundary between Hazaribigh and Manhlilm, and eventually subsides into an extended belt of high land with peaked hills in the latter District; The hill is now easily approached by the Rest Indian Railway to Girldin station, and thones by a short journey of about 18 miles along a metalled road. In 1868 Paramath was selected as a convolescent depot for European troops, but on account of the confined area of the plateau at the stimuit and the solitade, it was found uncultable for the purpose and was ubandoned in 1868. The building formerly used as the officers' quarters is now utilized as a dak bungalow. Pilgrims flock, to the number of 10,000 annually, from distant parts of India to this remote spot—the souns of Nirvāna or "heatific annihilation" of no less than 10 of the 24 defiled saints who are tho. objects of Jain adoration. From the last of these, Parsva or Parsvanatin, the hill, originally called Samet Sikhar, took its better known name of Parasaath. Pilgrimage to Parasaath is still as papular as ever among the Jaine; and new shrines, a single one of which in white murble cost Rs. 60,000, are from time to time erected. The temples lie well sport from the plateau, and the improved means of communication hold out a possibility of the latter being again utilized as a small sanitarium. [Sir W. W. Hunter, Statistical Account of Bengal, vol. xvi., pp. 216, 217.7

Ramparh.—Old District of Bengal stretching on the northwest as far as Shorphati in Gaya and including on the conpergent Chakai of Monghyr and the sumindar ril of Panchet, and in the south-west and south the present District of Palaman, while Ranch over a loose dispurse as it ributary estate administered by its own shief. This unwisely District was reducen up after the Ed. Introduction 100 Med. 20, parts of 12, going to Gaya, Monghya, Manhalim and Lohardang flows Ranchip, while the rost was dermed high the motion District of

Hazaribigh.

Ränchī District.—District in the Chota Nagpur Divisien of Bound-Bengal, lying between 22° 20° and 22° 42° N., and 83° 0′ and are, can 88° 64′ E. It is the largest District in Bengal, boving en areco i sgenifer. 7,128 square miles. It is bounded on the north by the District and 911 or Pelkuma and Haziribāgh; on the earth by Manblbin; on the options ocuth by Einghbhim and the Tributary Stete of Gängpur; and on the west by the Jeshpur and Sazgujā Eistes and Palliman District.

The District consists broodly of 2 plateaux, the higher of which. on its northern and western sides, has an elevotion of about 2,000 feet and covers about two-thirds of its area, while the lower platean lies on the extreme eastern and southern borders end has only half this elevation. The ghats or passes which connect the two are for the most part steep and rugged, and are covered with a fair growth of timber. In the north-western corner of the District ere situated several lofty ranges of hills, some of them with level tops, locally called pate, a few having an area of several square miles, but sparsely inhabited and with very little cultivation. The highest point in the District is the Saru hill about 20 miles west of the town of Lohardaga, which rises to 8,607 feet above sca-level. With the exception of the hills in the north-west and of a lofty range which divides the main portion of the lewer plateau from the secunded valley of Sonapet in the south-eastern corner of the District, the plateaux themselves are flat and undulating with numerous smell hills. The District possesses varied beanties of scenery, especially in the west and south, where bare and rugged rooks alternate with richly wooded hills enclosing seeinded and peaceful valleys. Not least among the scenio features are the various waterfalls, any of which would in a western country be regarded as worthy of a visit even from a distance. The finest is the Hundrughigh on the Subarnarekha river about 30 miles east of Ranchi town; but several others are hordly inferior. e.g., the Dasamghagh near Bunda, two Pornaghaghs (oce in Kochedege and one in Basia thana) so called because of the hundreds of wild pigeons which nest in the crevices of the rocks round about all these falls, and the benetiful though elmost unknown fall of the Sankh river, (known as the Sadnighigh from the adjacent village of Sodni Kona), where it drope from the lofty Rajdera platean on its way to the plains of Barwo below. The river system is complex, and the various watersheds coatter their rivers in widely divergent directions. Near the village of Nagra. 12 miles west end south-west of the Ranchi town, rice the SUBARNARRHA (the golden line or thread) and the South Kool (a very common name for rivers in Chois Nagpur but apparently without ony specific meaning), the former on the south side and the latter on the north. The Subarnarckha, of which the chief affluents in this District are the Kekro, the Kanchi, and the

Karkari, flows at first in a north-susterly direction, passes the town of Ranchi at a distance of about 2 miles, and eventually running dun east, flows through a nerrow and picturesque valley along the Hazaribagh border into the District of Manbhim. The South Koel, on the other hand, starting in a north-westerly direction, runs near Lohardaga, and turning south again, flows across the District from north-west to south-east into Gangpur State and there joins the Sankh, which, rising in the extreme west of the District, also runs south-east, the united stream being known as the BRAHMANT. Within almost a few yards of the Sankh rises another Koel, known as the North Koel but this etream flowi to the north and eventually, after traversing the Palamon District, joins the Son under the plateau of Robies. None of these rivers contains more than a few inches of water in the dry sesson, but in the rains they come down in audden and violent, freshels which for a few hours, or it may be even days, render, them well nigh impassable. Lakes are conspicuous by their absence, the explanation being that the granite which forms the chief geological feature of the District is soft and soon worn AWAY.

Geology.

The geological formations are the Archeon and the Goodwans. Of the latter all that is included within the District is a small strip along the southern edge of the Karanyura coal-fields The rock compying by for the greatest area is gueiss of the kind known as Bengal gueins, which is remarkable for the great variety of its component crystalline rocks. The south of the District includes a portion of the anxiferous schiets of Chota Narpur. These form a highly altered sedimentary and volcanic series, consisting of quartrites, quartritio sandstones, alates of various kinds, sometimes shaly, hornblendio, mica, talenso and alloritie schists. Like the Dharwar schools of southern India, which they resemble, they are traversed by auriferous quartz veins. 'A gigantic intrusion of igneous basis dioxile runs through the schints from east to west forming a lefty range of hills, which culminate in the peak of Delma in Manbhum, whence the name Dalma trap has been derived. In the neighbourhood of this intrusion the schists are more metamorphesed and contain a larger infusion of gold.

Beinny.

The introver velleys are often ternesed for rise cultivation and the rise fields and there is fields and their margins abound in marsh and water plants. The surface of the pietour land between the velleys, where level, is often here and rocky, but where undulinting; its untuily dolled with a dense carelly imple, in which Deutheratants strictes is often prominent. The steep stopes of the platt are overeed, with a dense force unised with climbers: Sel (Stores

The gold bearing rocks of Chotz Nigger have been described by S. M. Meclaren in Records of the Geological Servey of Rodin, vol. XXXI, part il.

robusta) is gregarious; among the eiler meteworthy trees are species of Buchanenia, Suncarpar, Travinatia, Celebra, Cassa, Butea, Bulbind, Acateia, Adian, which there forces riarce with the similar forests on the lower Himaleyan elepse. Mixed with three, however, are a number of characteristically Cestral, India tree and shrubs, such as Cechlogerenum, Symbola, Benerier, Benerick and Bassie, which do not cross the Gangelier plain. One of the features of the upper edge of the ghibit is a dwarf pain, Phoristical Cestralia, principal and the second produced by the abundance of Buten franches and the weather produced by the abundance of Buten franches and the magneta, and the mass of which lower along the 9th in November displayed by the cavalvulaceau elimber Forma pancienta.

The Indian biven (9807) is probably extinct as an inhabitant Paraof the District, but a wanders from Gaugent State or Palenaus
my consciously oven new be encountered near the boundary.
Tiger, leopard, panther, hyrena, bear, and an occasional well are
to be found in all jungly and mountainous parts, while himber
(Gerustjunkeler), sulgal (Bestaphus tragocomical), black lunck, chitea
or spotted deep, and the hittle defear or backing deet (Gerushus numitics)

are common in all the larger jungles.

The temperature is molecule except during the bot weather Cinara menths of April, May and June, when the westerty winds from set between the month of April, May and then perfectly with low humidity. The mean temperature increases from 70° in March to 85° in April and 85° in March to 100° in May, and the mean musimum from 63° to 70°. During these months humidity is lower in Cold Mappur than in any other part of Bengal, falling in Rancht to 43 per cent, in March. During the cold weather months to mean temperature is G2° and the mean miniman 61°. The atwage rainfall for the year is 62 inches, of which 81 inches fall in June, 13°6 in July, 13°7 in August and 86 in Sectember.

The history of Chola Nagpur divides itself into four well Hutory marked periods During the first the country was in the midisturbed peace-tion of the Manda and Oraco mace, who may be presumed to have reclaimed it from a state of uncultivated forest; it was at that time called Harkand or the forest tract. The second period embraces the subjection of the aboriginial village ecommunities to the choics of the Naghari family. The bidth of Stiffanda, near Pithautia, 10 miles north of Ranchi town, of the Brahman's daughter Pamil and the scales god, Pundaria, Nag, is a well known incident of mythelogy. Whatever the real origin of the family, it is certain that at some unknown time the aborigines of Choia Nagpur, either by voluntary sabmission or by force of arms, came muder the wary of the Naghania Haifs and

so continued until they in turn became subject to the Muslimin : rulers of Upper India. This event, which may be taken its inaugurating the third period in the history of Cheta Nagour, took place in the year 1585 when Akbar, sent a force which . subduot the Raja of Kokrah, or Chota Nagpur proper, which was celebrated for the diamonds found in its rivers; the name still survives as that of the most important pargana of Ranchi. District. Musalman rule appears for a long time to have been of a very nominal description, consisting of an occasional. raid by a Muhammadan force from south Bihar and the carrying off of a small tribute, usually in the shape of a lew diamords from the Saukh river. Jahanger sent a large force under Ibrahim Khan, governor of Bihar, and thoroughly subdued the 45th Kokrah potentate, Durjan Sal, carrying him captive to Delhi and thence to Gwalior, where he was detained for 12 years. He was eventually reinstated at Kokrah with a fixed annual tribute, and it would appear that the relations thus formed continued on a more settled besis until the deproductions of the Marathas in the 18th century led, with other causes, to the cession of the Chots Nagyur country to the British in 1765. A settlement was arrived at with the Naghani. Maharaja in 1772, but after a trial of administration in which be . was found wanting, the country now included in Rancht District was, along with other adjoining territories, placed under the charge of the Magistrate of Ramgarh in the Haziribagh District. This was in 1816 or 1817. Meanwhile the gulf bolwoon the foreign landlords and their despised aboriginal tenents had hegan to make itself felt. A large proportion of the country had passed from the head family, either hy way of maintenance grants (khorpout) to younger branches or of service grants (ideir) to Brahmans and . others, many of whom had no sympathy with the aborigines. and only sought to wring from them as much as possible. The result was a seething discentent among the Mundes and Omone which manifested itself in successive risings in the years 1811, 1820 and 1881. In the last year the revolt assumed very serious proportions and was not suppressed without some fighting and the aid of 3 columns of troops, including a strong body of cavalry. It had long become apparent that the control from Ramgarh, which was rituated outside the southernplateau and in reality formed part of a more northern administrativo system, was ineffective; and in 1833. Chota Nagpur properwith Dhalbhum was formed into a caparate province, known as the South-Weston Frontier Agency; and placed in the immediate charge of an Agent to the Governor-General aided by . a Senior and Junior Assistant; the position of the former corresponding diosely with that of the present Deputy Commissioner "t. Panatte, "ra' 256 fraverstome to reverment was again throad. and Chota Nagmar was constituted a non-regulation province

under a Commissioner. In the Mutiny of 1857 the head branch of the Chota Nagpur family held firm, though the Ramgarh Battalion at Ranchi mutinied and several of the inferior branches of the Nagbansis secuded. Chief among those in Runchi District was the zamindar of Barkagarb, whose property was confirented and now forms a valuable Government estate. The subsequent history of the District has been uneventful, with the exception of periodical manifestations of the discontent of the Munda population in the south and south-east. This was fanned during the last 15 years of the 19th century by the self-interested agricultum of so-called serdies or leaders, whose chief abject has been to make a living for themselves at the expense of the people, and also by the misropresentations af a certain section of the German missionaries. It culminated in a small rising in 1899 under one Birsh Munds, who set himself up as a God-sent leader with miraculous powers. The movement was, however, wanting in dash and cohesion, and was suppressed without difficulty by the local nuthorities, the ring-leader being captured, and ending his days from cholern in the Risachi jail. When the South-Western Frontier Agency was established in 1834, the District, which was then known as Lohardaga, included the present District of Polaman and had its head-quarters at Lohardaga 45 miles west of Rancht. In 1840 the bend-quarters were transferred to their present site, and in 1892 the subdivision of l'olaman with the Tort pargona was formed into a separate District.

Debtangar, which lies about 40 miles to the west and south of Archeo-Rancht, contains the rains of the palaces boilt in the last quarter of the 18th century by Mahistrija Ram Schil Dee and his largest the Kuser Gokhal Nath Schi Dee, and also of tome half dozen temples credet for the warehip of Mahisdee or Ganzech. The stronghold of the former likia in Jashpur, one of the old chiefs brought into subjection by the Minghalt, is situated about 2 miles north in Gelekada in the Jashpur parayons. The only other relic

propriet mes surjection by the surgeau, it structure about 2 miles morth in Geleiand in the Jackpur. perposa. The suly other relie worthy of sole is the temple at Circura on the cuatern entheirts of the tean of Riscoli. 'Chakshita' or the place of morning is n villege in the senth-west of the District famous for its large burning ground, which is used by both Millemmandans and Mundâs. The recorded population of the present area rose from 313,293 the

The recorder oppulation of the present area rose from \$13,928 Te⁻¹⁰ in 1872 to 1,955,106 in 1881 and to record in 1872 to 1,955,106 in 1881 and to record in 1872 to 1,955,106 in 1891. The larges apparent increase in the first decade may be in part sitisfact to the termination of the first consus. The subsequent growth would have been greater but for the droin of consus. The subsequent growth would have been greater but for the droin of consus for the droin of consus for the droin of consus of 1991. The more jumply functs are very mulations, but on the whole the climate compares facturably will the 4 of other parts of

Bengal. The salisht statistics of the consus of 1901 are reproduced below:

SUB-DITIBLOS.	Area fa Ingurare Inclies,		Villages.	Population.	Penalities per square mile,	Persentage of variation in population between 1601 and 1901.	Dinter of
Bigebt Gumia District total	2,566 2,523 2,225	. 8	, 1,167	283,650 431,650 4,717,860	120 127	+37	25,165 7,618 20,621

Norg.—In 1905 a new sub-diricism, Khusti, with an area of 1,160 ppars miles, was conditioned, and the area of the Riachi sub-diricism was reduced to 236 square miles. The population of the Riachi and Khusti sub-dirition in 27,83 and 225,407 respectively.

The four forms nor Rangur the present, and Louanness the forms head-quarters, Burnes and Parson. The density of portions to the forms the second of from the north-act to the wast and analysis of the form the north-act to the wast and analysis of the forms of the form the f

There is also a large but urresponded acodus to the ter sparfeast of Darjoching and the Dustra, which are worked with free labour, and to the coal mines of Mashbitm and Burdwar, during the winter mouths many visit the Districts of Bugel proper to seek conjugated in cardinary that the Districts of Bugel proper to seek conjugated in cardinary and the Districts of Bugel proper to seek conjugated in the Districts of Bugel proper to food in the boundary of the production of the production of the production of the production of the production. The district meet he specked by 20 per cent. Of the production, The district meet he because of the Minda family are sparsed by 50 per cont. of the production, the district meet he production, the district meet the production, the children of 200,000 persons, and Kharift, which is spacen by 60,000. Kruthliero Cronon, a Dravillain Bengrage, was returned at the comment of the production, that as a matter of fact many of the Oronou have abandoned their tribal language in from of a 6-based form of fliedt, Hindas rubmbe 474-500 persons (or 40 per cent. of the population, hair a sum atter of fact men of a 6-based form of fliedt, Hindas rubmbe 474-500 persons (or 40 per cent. of the population), Animists 546,416 (46 per cent.). Manufants 41,072

(3) per cont.), and Christians 124,953 (10) per cent). Animism is the religion, if such it can be called, of the choriginal tribes, but many such persons now claim to be Hindus, and the native Christians of the Ranchi District have been received almost

entirely from their rapks.

Of the aboriginal tribes the most numerous ere the Oracors Their (279,000). Muxnas (388,000) and Kharias (41,000). The Oracons corpus are found chiefly along the north and west, the Mundle in the east time. and the Kharias in the south-west of the District. Among the Hindu castes Kurmás (49,000) and Ahīrs (Golsias) and Lohus (each 37,000) ere most lergely represented; the lest named probably include a large number of aboriginal blacksmiths. Agginulture supports 79 per cent. of the population, industries 11

per cent., commerce 0.6 per cent. and the professions 1.2 per cent. Christians are more numerous than in any other Bengal Christian District and, in fact, number five-elevenths of the whole Christian Missions. population of Bengal and Eastern Bengal. Missionary effort commenced shortly before the middle of the 19th centery, the converts consisting almost entirely of Oracus (61,000). Mundas (52,000) and Kharias (10,000), The Germse Evangelical Latheran Mission was established in Banchi in 1845 and was originally known as Gosmer's Mission. An unfortunate disagresment subsequently took place, and in 1869 it was split up into two sections, the one enrolling itself under the Society for the Propagation of the Gospel and the other retaining the name of Gosmer's Mission. The progress made during recent years has been phenomenal, the number of converts baying increased from 19,000 in 1891 to three times that number in 1901. The Mission now possesses 10 stations in the District, and the workers include 21 European missionaries, 19 notive pastors and 515 catechists, teachers, etc. The Church of England Mission, which had its origin from the split in Gossper's Mission, had in 1901 a community of 18,000, compered with 10.000 in 1891. The Roman Catholic Mission is an offshoot from e mission founded et Singbbbüm in 1869, which was extended to Ranchi in 1874. It has now 11 stations in the District, and its converts in 1901 numbered 54,000 or about three-fifths of the total number of Roman Octholics in Bengal and Eastern Pengel. The Dublin University Mission, which commenced work at Hazaribagh in 1892, opened a branch at Ranchi in 1901. The greater part of the District is en undulating tableland, General

bet towards the west and south the surface becomes meeting the state of the better that the below the surface becomes more that one towards the below the surface becomes more that or revines where no erope can be grown. Gulfrighte land ordinarily falls into two main danses, den or levelled and embanked lovlands, sub-divided seconding to the emount of meisture which they naturally retain, and den or upleads, which include allies the berion immessed lands round the village sites and the story and

infertile, lands on the higher ground. Generally speaking the low, embanked lands are entirely devoted to rice, while on the lands rice is also grown but, in company with a versity of other cross.

The salient agricultural statistics for 1903-04 are shown below areas being in aquere miles:—

lay stabs eng bines engatics engatics engatics

	Воз рустанов.	Tolal.	Cultivated	Calterable Waste	Forers.	
Ľ	Binchi		2,254 916		á	100
	TOYAL	7,123	3,769		2	ľ

Norm - In 1905 a new sub-dicteion, with head-quarters at K boots, was constituted from a portion of the Radeii sub-division. The total area of the Abrila and K boots used the constraint and 1,140 square miles respectively.

The cluef stople is rice, grown on 1,914 square miles, the upland paddy being invariably sown broadcast, while the lowland . paddy is cither sown breadenst or transplanted. Other impure tent ocreals are gondli or the small millet (Panioum miliare), and marad : prices, especially erd, and oilseeds, chiefly surgifa and mustard, are also extensively grown. The bladet harved, resped." in August and September, includes the upland nos wope millets and pulses, and the kharif, vesped in the latter part of November, December and January, includes the whole of the paddy crops on the embanked lands, carguja and one of the varieties of and pulse. Though in area there is apparently not much difference between those harvests, the latter is by far the more important of the two owing to the weight of paddy taken . off the don'lands. The rabi harvest in February is relatively very small, the only important crops being rahar (Cajanus indicus) and sarson. Tea was at one time somewhat, extensively cultivated, but the soil and the minfall do not appear to be mitted to the production of the finer varieties, and the industry has of late years sensibly declined. In 1903 there were 21 gardens with 2,256 acres under tea and an outturn of 308,000 lbs. Market gardening is carried on to a small extent in the neighbourhead of the large towns by immigrant Koiris from Hillar .

The low land most "mishbo for emboarked non continuation has already been taken up, and a the cots of leveling and embashing the highest ground is considerable, he extension of callivation proceeds but showly. The native callivates amploys primitive motheds and displays no integers in the hirofaculion of improvements. In Government extract experiments have been made.

improvaturni frac faral frac tica. with improved seeds, especially of the point plant, and on the Gelaisad ten sente same their land has been put under the aloes and experiments in fibre extraction are being made. The construction of tanks for irrigallon purposes by creeting dama sences the alone, though they would be shore and effective, has been but little recurred to, except at Kelebira and in a few villages in Georemment extents. Cow-dung is used for manuning lowland rice, and ashes for the fertilization of the uplands of Re. 30,000 were made under the Land Improvement Lons of Re. 30,000 were made under the Land Improvement Lons at each of the fertilization of the second of the seco

No good cattle are bred; pigs and fowls are largely kept by Cattle. the aboriginal inhabitants, especially in the remoter parts and

on the higher plateaux.

Extensive jungles under private ownership exist in the north. Forests, west and south, but the only Government forest is a small reserved

forest covering 2 square miles near Ranchi town.

The Sonapet area at the south-east corner of the District Minerals. which is almost entirely surrounded by the I'alma trap, has long been known to contain gold, but, from the recent investigations of experts, it appears very doubtful whether its extraction either from the alluvium or from any of the quartz veins can ever prove remunerativé. Iron ore of an inferior quality abounds throughout the District, and is smelted by the old native process and used for the manufacture of agricultural implements, etc. In the south-east of the Tamar pergana a soft kind of steatite allied to scapstone is dug out of small mines and converted into various domestic utensils. The mines go down in a slanting direction, and in one or two instances a depth of about 150 feet has been reached. The harder and tougher kinds of trap make good road metal, while the softer and more workable forms of granite are of easy uccess and are much used for the construction of piers and foundations of bridges and other buildings. Mice is found in several localities, especially near Lohardaga and elsewhere in the north of the District, but not in sufficient quantities or of a quality good enough to make it worth mining.

The chief industry is the manufacture of shellac. The lac arts and

ineed in moustry is the manufacture of shellar. The las Arts and ineed is bred chiefly on the Newma (Schliether tripings) and pella manufactured in some half dozen factories, the largest being at Rinchl and Bündu. Brass and bell-motal articles are manufactured at londings, and operate manufactured at londings, and operate of the pella decimal pellament and bell-motal articles are manufactured at londings, and operate

cotton cloths are woven throughout the District.

The chief exports are rice, othereds, hides, lan end toe, Cem-Myrabeloms (Terminatic behind) are also extensively exported, merc. The shief imports are wheat, thereon, pages, sur, sail, piecegoods, blankets and korosano oll. The principal places of trade are Rixacli, Lohardega, Eudad, Palkot and Gobindapur. In the west of the District, owing to the frequent plats with only bridle paths across them, the articles of commerce are carried by strings of pech-fullocks, of which great numbers may be not able the corp-outting season, proving in or out of Barrie to trials either, in Ranchi or in the Seehaper and Burging Sisters.

Ralimays and reads.

No railways enter the District, and musically the voice of the external trade is carried elengthe out road which comises Ranchi town with Purilla on the Bongal-Nigora Kalmay. This road, and those to Chathes and Rosenbagh with a register the length in the District of about 109 miles, are maintain by Government. There are also \$19 miles of read, canceling 170 miles of rilage trackly aministance by the District board. The most important of these are a gravelled road, & District board. The most important of these are a gravelled road, & District board. The most important of these are a gravelled road, & District board. The most important of these are a gravelled road, & Minchi with Lobarings, and 'unmoduled roads, from Rinchi to Bindu and Tamar, Piltch, Here and Kundeg, 'and Rinchi to Bindu and Tamar, Piltch, Here and Kundeg, 'and Common the Common to Lobarings and another through Gunda. There is a ferry over the Koel river, where it coses the road to the new sub-divisional head-quarter at 'Gmal, but as a rule forries are little used, as the rivers, whom not easily fordable, become virtues had becamed to the common to the product of the common transport of the through which it is dangerous to cross.

Pamine.

The District was affected by the famine of 1874, and the harvests were very dedoient in 1891, 1895, 1898 and 1899, but it was only on the last two occasions that relief operations work found necessary. In 1897 the test works at first failed to attract labour, and it was hoped for a time that the people would be able to surmount their trouble without help from Government. Great distress subsequently manifested itself in the centre of the District, but relief operations were at ones undertaken and the sorte singo was of very short duration. Altogether 52,718 persons' found employment in relief works, and grafuitous relief was given . to 153,200 persons, the expenditure from public funds being Ra. 18,000. The District was, however, nover officially declared affected, and relief operations were only corried on for a few months . on a small scale. In 1900 relief works were opened in emple time; the attendance on them was far higher than in the previous famine: and the distress that would otherwise have ensued was thus to a great extent averted. The area affected was 3,052 . square miles with a population of about 493,000 persons; and in . all, 1.134.287 persons (in terms of one day) received rolled in return for work and 516,480 persons gratuitously, the expenditure from public funds being 23 lakha. The distress was most coute. in the centre and west of the District, but, as far as is known, there were no deaths from starvation.

District rob-divisions and

'In 1902 the District was divided into 2 sat-divisions with, head-quarters at Ranchi and firmle, and in: 1905 a third sub-division was formed with head-quarters at Khunti: The staff at head-quarters at Khunti: The staff at head-quarters at Khunti: The staff at head-quarters subordinate to the Departy Commissioner consists

of a Joint and 5 Deputy Magistrate-Collectors, while the Gumla and division is in charge of a Joint, and the Khunti sub-division

of a Depaty, Magistrate-Collector.

"The chief court of the District both civil and criminal is Civil and thet of the Judicial Commissioner, who is the District and Sessions justice.

The Departy Commissioner has special powers under section 34 of the Code of Criminal Procedure to try all cases not maistable with death. The givil coarts include those of the Donnty Collectors who try all original rent suits, of 2 Muneifs at Ranchi and Gumle, who have also the newers of a Denuity Collector for the trial of rent suits, and of a special Sabordinata Jadge for the combined Districts of Hazaribach and Runchi. The most common primes are burglaries and those which arise from disputes shout land; the latter are very frequent owing to the unsettled nature of rights and areas, the jengrance of the common neonle and the greed of indifferent and petty landlords Murders are musually frequent, as the aboriginal inhabitants are heavy

drinkers, believe in witchernft and have small record for life. The country was originally in the sole possession of the shori. Land reginal settlers, whose villages were divided into groups or paras vanue, oach under its make or shief. These chiefs were subsequently brought under the domination of the Narpanai Rajas. who became Hinduized and by degrees lost sympathy with their demised non-Hindu subjects. The Rajas in course of time made extensive scants of land for the maintenance of their relatives. military supporters and political or domestic favourites, who fell into financial difficulties, and admitted the diffic or alien adventurer to prey non the land. To one or other of these stages belong all the tenures of the District. They are very numerous, but can be generally classified under four heads: the Rai or Chota Nagour estate; tenures dependent on the Mabarajas and held by subordinate Rajas; maintenance and service tomures; and cultivating tonures. The accord and third classes of tenures are held on a system of succession peoplier to Chota Nagpur, known as putra-putratit, which rendere them liable to resumption in cose of failure of male heirs to the original grantee. As the Chota Nagpur Raj follows the custom of primogeniture, maintenance grants are given to the near relatives of the Maharaja. The chief service grants are: barath given for military service and the apkeep of a militia; bhuiyd, a similar tenure found in the south-west of the District; older for work done as dwan; ghatwal for keeping safe the passes; and a variety of revenue-free greats, brahmettar or grants to Brahmans, and debotter or lands set apart for the service of idols. Cultivating tenures may be classified as privileged holdings, ordinary systs land, known as rajhus, and proprietors' private had or manjhihas. The privileged holdings are those which were in the

cultivation of the aboriginal settlers before the advent of the Hindu landlords and the importation of miltirators alies to the village. They include bheinbort, with the cognate tenurs known as chutkhete (land set aside for support of dovil propilistics)." delikatari, palmai and mehati. These last are lends held by the pain and mahalo the village priest and headman. In some parts the privileged lands of the old settlers are known as think khatte and include the pake khunt, munde khunt and the mehits khunt. The munds is the village chief responsible for the pay ment of the khuntkhatti rents to the manki of the circle of the villages, while the mahate, a later importation, is the headman from the point of view of the Hindu landlord, whose interests be guards by assisting in the realisation of the rent of the rajhus and cultivation of the manifeliar lands. These latter include betheheld or land set saide for the provision of labour for cultivation of the remaining private lands. As in other parts of Bengal, ettempts to add to private lands are constantly made, but the tendency received a salutary check from the demoration, mapping and registering of bheinhart and private lands under the Chots Nagpur Tenuros Act of 1869. By the original custom of the country, now gradually passing away, rout was as a rule assessed only on the lowlands or done. On an average of 10 villages in the Government estates in 1897, the rates per nore for low lands were found to range between R. 1-2-8 and Rs. 2-1-6 and for high lands between 11 and 4 annes. These rates are very much lower than those provident in samindari villages, where Ra 8 to Rs. 10 is often charged for an acre of first class low land. The uplands, when not paying cash rent, are usually liable to the payment of produce rent known as rakundle, which very a good deal in different parts, and the cultivators are liable to give a certain amount of free labour (beth togar) to the landlord. The following table shows the collections of land revenue and total revenue, under the principal heads, in thousands of ruposs :-

	1859-81.	1690-91.	1900-01.*	1008-04.
Land revenue	95	1,05	48	. 52
Total revenue	4,91	7,14	5,08	6,62

Local and covernmunicipal

of Ontside the municipalities of Räsedt and Ledtränga local affairs are managed by the District board. In 1903-04 its income was 12: 1,42,607, accurately 12: 02,009 actives them made, and the expenditure was Rs. 1,02,000, the abird items being Rs. 50,000 spent on cirtl works and Rs. 33,000 on adulation.

"The diminution in the receipts is due to the feet that Fullman was formed into a separate District in 1802.

The District contains 16 police stations and 16 ontposts, and Pales and in 1906 the force subordinate to the District Superintendent of Pales Police consisted of 3 inspectors, 33 sub-majectors, 42 based constables and 362 constables; there was, in addition, a rural police force of 24 adjuster and 342 checketers. The District jails at Rapoli has secommodation for 217 prisoners and a subsidiary islate drumt for 21.

National Commission 221.

Bilaction is backward, only 27 per cent. of the population Research.

(51 males and 05 tennics) being made, and the number of pupula under instruction rose from 12,669 in 1823-93 to 19,182 in 1900-01, while in 1903-04, 19,074 boys and 2,514 girls were at school, being respectively 220 and 27 per cent. of the children of school-going ago. There were in that year 687 schools, including 16 secondary, 825 primary and 17 other special schools. The most important of these are the Districts chools, the German Paragolistic Lutheran Mission high school, the first-grade training school, the German Paragolistic tower. The expenditure in 1903-04 was Rs. 1,56,000, of which Rs. 19,000 was derived from Provincial revenues, Rs. 88,000 from first funds, Rs. 700 from municipal funds, Rs. 22,000 from few and Rs. 75,000 from other sources.

The District contains 8 dispensaries, of which 8 peases Stellal. accommodation for 49 in-patients; the cases of 18,848 ont-patients and 869 in-patients were treated in 1993, and 768 operations were performed. The expenditure was Rs. 18,000, of which Rs. 1,100 was contributed by Gevernment, Rs. 1,900 by District funds, Rs. 6,000 by local funds, Rs. 6,000 by municipal funds and Rs. 9,000 was obtained from subscriptions. The principal institu-

tion is the Ranchi dispensary. A small leper asylum at Lohardaga is conducted by the German mission.

Vaccination is compulsory only in municipal areas, but good Vaccination is compulsory only in municipal areas, but good Vaccinated is being made throughout the District, and in 1903-04 stor... the number of persons successfully vaccinated was 43,000, or

37.3 per thousand of the population.

[Sir W. W. Hunter, Statistical Account of Bengel, vol. xvi. 1877; F. A. Slacks, Report on the Settlement of the Estate of the Maharaja of Ohota Nagpur, Calcutta, 1886; B. O. Bann, Report on the Agriculture of the District of Lebandaga, Calcutta, 1890; Propers relating to the Ohota Nagpur agrariam Supeles, Calcutta, 1890; E. H. Whitley, Notes on the diabet of Lebandaga, Calcutta, 1898; F. B. Bradley-Brit, Choica Magpur, 1903.

Banchi Sah-division.—Head-quarters sub-division of the Bengal District of the same name situated between 22° 38′ and 28° 48′ N., and 34° 27′ and 85° 54′ B., with an area of 2,386′ square miles. The sub-division consists of an elevated undulating table-land, where permanent cultivation meetly takes place in the terraces out in the alopse of the depressions' which is between the ridges. He population was 750,200 is 1901; compand mile 750,642 in 1891, the donaity being 215 persons per square mile. In that year is comparised 3,606 square miles, but oving the formation of the Runti insub-division in 1905, the cross reduced to 2,800 square miles with a population of 527,620 and a density of 229 persons to the square mile. The sub-division was claims 2 towns, Ramert, its lead-quarters' (population, 28,570),

Lorganuaga (6,123) and 1,417 villages.

Gamila Sub-division.—Santia-waters inhabition of the Randi District of Bengal, situated helwent 29 20 and 23° 33 Ny and 84° 2 and 85° 6 L, with an error of 3,622 square mile. The sub-division is part of the undulating district plates more broken, the hills are sleeper and the valleys are replaced by ravinas. The pletean falls away to the south, while the level of the country rises, and there is another and higher plateau, to the west. All population was 484,869 in the own plateau, to the west. He population was 484,869 in 100 compared with 898,243 in 1891, the density being 120 peaks per square mile. The sub-division contains one four Passon (3,240) and 1,167 villages, one of which, Guella, is the head centerer.

"Rituati Sub-directon.—South-eastern sub-director of the Randel District, Bengal, with an area of 1,400 square mighther than the surface of 1,400 square mighther than the surface is broton and the bundlading ridges and velleys give place to stop. Alls are avaised, tennanting, in a companitively open plain to the south-east forwards Mashbirm. If bad a population in 1904 of 226,407, compared with 188,750 in 1891, the density 188 percents the secure mile. If contains our town, Bushow (6,469) and 289 villages, one of which, Kutuser, is its bissed (6,469) and 289 villages, one of which, Kutuser, is its might be supported to the support of the suppo

quarters.

Banda.—Town in the Khunti sub-division of the Ranchi District of Bengal, situated in 23° 10° N. and 85° 36° E. Population (1901) 5,409. Bandu is the contro of the lacindestry

in the District and a flourishing trade contra-

Chultii. Villago in the hone-quarters sub-division of Rhuddi District, Bengal, situated S miles sate of Ringini from in 23° 21' N. and 60° 21' B. Perplation (1901) 888. Chulti was, at one time the seat of the Naghamal Rhigh, and this circumstance gave to their territory the designation of Choria 6 correspino of Churkia) Naguer.

Ginnia Village.—Head quarters of the sub-division of the same name in the Ranchi District of Bongal, situated in 23° 2' N. and 84° 33' E. Population (1901) 777. It is a flourishing

trada contro.

Khunti Village.- Head-quarters of the sub-division of the same name to the Racchi District, Beogal. Population (1901) 1.446. It is a trade cootre of some importance on the rood from

Ranchi to Chaibasa.

Lohardoga.-Town in the head-quarters sub-division of Rănchi District, Bengal, situated in 23° 26' N. ond 84° 41' E., 47 miles west of Rănchi town. Population (1901) 0,123. Lohârdaga was untit 1840 the head-quarters of the District, which was formerly called ofter it. It was constituted a municipality in 1888. The average income for the decade ending in 1001-02 was Rs. 4,600 and the expenditure Rs. 8,700. In 1908-04 the income wos Rs. 4.400, half of which was obtained from a tax on persons (property tax), and the expeediture was Rs. 4.700. A small loper asylum is maintoined by o German mission.

Marang Burn .- Hill on the edge of the plateau of the Hazaribagh District of Beogral, situated in 25° 33' N. and 85° 27' L., on the boundary line between Hazaribagh and Ranchi Districts. It rises 2,400 feet obove the valley of the Damodar and 3,445 feet above sea-level. It is an object of necolior veneration to the Mundas, who regard Maraog Barn as the god of minfall, and appeal to him in times of drought or

enidemie zickness. Palkat.-Town in the Gumla sub-division of Ranchi District, Bongal, situated in 22° 52' N. and 84° 39' E. Population (1901) 3.246. It is one of the principal trade centres in the District. is the head-quorters of o police eirele, and has given its name to

one of the parganas of the District.

Ranchi Town .- Head-quarters of the Beogal District of the same name and also of the Commissioner of the Chota Nagpur Division, situated in 23° 23' N. and 85° 20' E, on the Chota Nagpur plateau, 2,100 feet abovo sea-level. Population (1901) 25,970 (including 2.844 within contonuent boundaries), of whom 12.968 were Hindus, 7.547 Musalmans, 3,640 Christians and 1,807 Animists. Ranchi is a station of the Lucknew division of the Eastern commond, and the wing of a native infantry regiment is stationed in the contouments formerly known as Dorunda cantonmeets) which lie 2 mites to the south of the town; the town is also the head-quarters of the Chota Nagpur Volunteer Mounted Rifles, the Superintending Engineer of the Western Girole and the Executive Engineer of the Chota Nagpur Division. It is connocted by good metalled roods with Purilin, Hazaribagh and Chaibaso, and is a large trade centre. It is the chief seet of Christian missionary enterprise in Dengal and is the head-quorters of 3 important missions (see Ranout District). Ranchi was constituted o municipality in 1869. The overage income for the decado ending in 1001-02 was Hs. 23,000 and the expenditure Rs. 22.000. In 1903-04 the income was Rs. 35,000, mainly derived

from a tax on houses and lands and a conservency rate while: the expenditure was Rs. 32,000. The instural drainage of the town is excellent, and plenty of good water can be obtained from: wells. The town contains the usual public buildings; the District jail has accommodation for 217 prisoners, who are employed on the manufacture of oil and of rope from alse fibre. The med important schools are the District school, with 388 pupils on its rolls in 1902; the German Evangelistic Latheran Mission highschool, intended chiefly for the education of Christian conveds, with 280 pupils; the first grade school for vernacular teachers with 22 pupils; the Government industrial school and the blist school. In the industrial school the pupils, who in 1902 numbered 50, get stipends varying from R. I to Rs. 3 per month and are taught carpentering and black-smiths work, ste., together with a cortain amount of reading, writing, free-band drawing, elementary arithmetic and practical geometry. The course of metraction it the blind school, which had 20 pupils, includes reading by 'mens. of raised type representing letters, cone-work, newer weaving and mat-making. It is proposed to build a large asylum for European and Eurasian lunatics from Northern India at Ranchi.

Sarn,-Hill in the Gumla sub-division of Ranchi District of Bengal, situated in 23° 30' N. and 84° 28' E. It is 3:015 felabove sea-level and is the highest peak on the Chota Nappu

plateau.

Palaman ("a piace of rainge").—District of Bengal, lying between 28° 20' and 24° 30' N., and 83° 20' and 84° 56' E. with an area of 4,914 square miles. It is bounded on the north by the Shahabad and Gara Districts; on the east by Gaya; Hazuribagh and Ranchi; on the south by Ranchi and the Tributary State of Surguja, and on the west by Surguja and the

The District consists of a confused aggregation of hills, offshoots from the Chota Nagpur plateau, and of the valleys between them. The hills run in the main east and west, though many are at right angles to the general frond. They are highest in the south, where they adjoin the Surguja plateau, and gradually decrease in size towards the porth. The District comprises four distinct tracts, which are roughly coterminous with the four old fiscal divisions or parganas. By far the largest is pargens Palamau, which forms the greater portion of the District and consists of jungle-olad hills and fertile but narrow valleys. Pargana Tori is an undulating but in many places highly cultivated tract with a few large isolated hills; until recently it formed part of the head quarters sub-division of Ranchi District, and its tenures. people and customs are quils distinct from those of Palamea, Pargana Bolannia in its southern portion closely resembles Palaman, but towards the north it sinks into an extremely fertile

Boundaries. arreterns valley into which the Son yearly overspills. Parpana Jupia, in the extreme north of the District, is a tract almost devoid of the distance of the District of Gayl. The Son flows along the northern border, but the most important river is the Koel. This sizes in Barwo in the Rinchi District, and after flowing nearly due west for about 24 miles turns northwards, passes through the centre of Polianau, and joins the Son not far from the old fort of Robitsgard; its clief millionits are the Aurenga and the Amasta. The Kanhar down in a north-westerly direction along the Surgaja boundary,

and eventually joins the Son in Mirsapur District.

The chamologistic formation of Palaman is gnoise, of which Geology.

all the more important hill ranges are composed. It is of extremely varied constitution, and includes granific gueisses, mica schists, magactito schists, hage beds of crystelline limestone, etc. Along the north-west boundary of the District is the castera termination of a large onterop of Bijawar slates, which extends westward for nearly 200 miles through Mirzspur and Rewab. The Lower Viudhyans, which rest unconformably upon the Bijawars, are found along the valley of the Son, where representatives of the Garhbandh, percellanie and Khinjna groups are found; the first mentioned contains two sub-divisions, a lower one consisting of conglomorates, shales, limestones, sandstones and percellanites, and an apper band of compact limestone of 200 or -300 feet in thickness. The rocks of the percellanie group, which overlies the Carbbandh, are indurated highly siliceous volcanie · ashas; their thickness increases as they approach the former centres of volcanic activity in the neighbourhood of Kutumba, Nabinagar, and Japla. The shales and limestones of the Kluinjua group are mostly consealed by alluvium along the banks of the Son. As the Vindhyaus are unfossiliforous, their geological ago cannot he exactly determined, but there is reason to think that they may be as old as Cambrian.

The next formation, the Gondwina, contains numerous fessil pulsus, which determine it sape partly as upper palescole and partly as mesozoie. It is of great consonie importance on account of the coal and from ore which it contains. It comprises in Palaman the Mahadova, Pamehet, Hamiganj, Bardhar and Tathen divisions. The recks of this formation generally weather into low undulating ground, but those of the Mahadova group rise into low undulating ground, but those of the Mahadova group rise into lony hills. The coal seams are restricted to the Bardhar and Raniganj groups, which consist of alternating layers of shale and sandatone; the workshile seams are found chiefly in Bardhar. The Panehet and Mahadova groups consist principally of sanudatones, and the Taloher mostly of shales; the Talohers, which are the oldest Gondwina rocks, contain at their hase a conglementa, consisting of large budders embedded to elay, which

is supposed to he of glacial origin. The Asimuga, Huise and Daltongan; coal-fields are attented entirely in Palman, windate contains the western extremity of the large-Rumanpark field. The boundaries of the coal-fields are usually faciles; where position is midicated by lines of siliconous breesis, and hot sulphurous springing frequent along them. The best coal is that of the Daltongay field.

Near the seethern edge of the District, the Lefty fieldspiel in the late or capped by great masse of histories resulting from the decomposition of health beds of the District particular formation. The largest of these is the vai Neutlinghatous west of the Koel river. A few intrasive dyses of its same formation occur in the Daltzegam and Hutar coul-ledge.

Along the Sen, especially below its confluence with the Kellsh considered the Gengel plant within merges into the full formation of the Gengelic plain. Allarial soil is satisfeed or many either parts of the District sed nearly everywhere conduin in great shundance the collectors concretions known as knazar, '

The rice fields and their margins should in marsh and wish plants. The series of the platea had between the religion where level, is often here and rocky, but where undishing it usually obthed with a dense serah junje, in which bendresses strictus is often prominent. The stoppes along over covered with a dense forces mixed with many olimbers. Self (Sheres reliable) a dense forces mixed with many olimbers. Self (Sheres reliable) and the programous among the other networthy species are species, as Buckanania, Semecarpus, Terminalia, Catella, Cassia, Buttes, Buttlewich, Catella, Catel

The chief wild enlines to be met with any ligar, hisson, leopart, penther (rety rare), black bear, semiar, seizer (spotted deer, seinstand, four-hornest deer, barking deer, missel, black beak and wild dogs. The Gerermannt reserved forests form a select re game, said though fixers here probably diminished in mimber of latin years, bison and doer have congleterably increased in spile of the rawages committed by wild dogs.

Boiany.

Fanns.

Distilled descriptions of the Geology of Delicans have been redshibled in the Receipt of Servey in State and Assemble of the repeate over the great state of the response of the force crist bare been detectived by V. Bill, in tel. xx, part 1; this Balloqued oblight Dr. Riggles in red, try part 13; the Receipton cool field by T. M. Riggles for red, v.ul. part 13; the Receipton cool field by T. M. Riggles for red, v.ul. part 1; the Receipton cool field by T. M. Riggles for red, v.ul. part 1; the Receipton cool field by T. M. Riggles for red, v.ul. part 1; the Riggles of the Very the Very the Riggles of the Very the Very the Very the Riggles of the Very the Very

Palaman enjoys a moderate temperature, except during the climate het weether months of April, May and June, when the westerly and transition Coatral India eause great best, combined, however, positive, with very low humidity. The mean temperature increases from 7½ in March to 86° and 44° in April and May, the mean minimum temperature from 69° in March to 81° in June. During these mouths humidity is lower in Choia Nagpur than in any other part of Bengal, falling in this District to 67 per cent. in March, 46 per cent. in April and 61 per cent, in May. The mean temperature for the year is 77°, falling to 61° during the odd weether, when the minimum temperature is 47°. The average annual rainfull is 49 isches, of which 63 inches fall in June, 14 each in Jaly and August and 81 is Sortomber.

Rehable history does not date back beyond 1663, when Bistory. the Raksel Rainuts were driven out by the Cheres under Bhagwant Rai, who took advantage of the local Raia's absence at a ceremony at Surguin to raise the standard of revolt. The Chero dynasty lasted for nearly 200 years, the most famous of the line being Medni Ital surnamed "the just," who ruled from 1658 to 1672 and extended his Raj into Gaya, Hazaribagh and Burguja. The erection at Palaman of the older of the two forts which form the only places of historical interest in the District is ascribed to him; the other, which was nover completed, was hegun by his son, These Rajas apparently ruled as independent princes till between 1640 and 1660, when the Muhammadans mada soveral attacks on them and forced them to pay tribute. In the latter year occurred the attack on Palaman fort and its capture by Daud Khan, which forms the subject of a large picture (30 feet by 12) preserved by Daud's descendants and described in detail by Colonel Dalton in the Journal, Asiatic Society of Bengal 1874. In 1722 the ruling Raja Ruejit Rai was murdered, and Jay Kishan Rai, desconded from the younger son of a former Raja, was placed upon the throne. A few years afterwards Jay Kiehan was shot in a skirmish, and his family fled to Megra in Bihar. Here they took refuge with one Udwant Ram, a kanunge, who in 1770 took Gopal Rut, grandson of the murdered Raja, to Patna and presented him to Captain Camne, the Government Agent, as the rightful heir to the Palaman Raj. Captain Camao promised the assistance of the British Government and, after defeating the troops of the ruling Raja, gave a sanad for 5 years to Gopal Rai and 2 of his consins. From this time Palaman was included in the British District of Ramgarh. A year or two later, Gopal Rai was sentenced to imprisonment for being concerned in the murder of the kanungs who had helped him to power. He died at Pains in 1784, and in the same year died Basant Rai, who had succeeded to the gaddi on his imprisonment. Churaman Rai succeeded; but

by 1813 he had become insolvent, and Palaman was sold for nirears of revenue and hought in by Government for the amount dne. Only 8 years later old disturbances between the Kharwars and Cheros were renewed, and Pelaman was given to the Dee family in Gaya as a roward for their services in helping to quellthem. Their regime, however, was unpopular, and in a year the country was in open rebellion. So Government was again forced to take up the management of the estate, giving the Dec family; as compansation a reduction of Rs. 3,000 in the Bihar revenue payable on their estates in Bihar. In 1832 the Kharwars and Oheroe again broke out in rebellion, but this rising was soon put down and there were ne further troubles until the Muting of 1857, when the Kharwars ross against their Rajput landlords; and the mulineers of the Ramgark battalion, taking refuge in Palamau, made common cause with Nilambar and Pitambar Singh, two malcontent land-holders. The 26th Madras Native Infantry and a portion of the Ramgarh battalion which had. remained loyal defeated the insurgents at the Palaman forts. Nilambar and Pitambar Singh were taken prisoners and hanged. In 1934 Palaman was included in the District of Lohardaga (now Ranchi) and was only formed into a separate District in 1892.

people.

The population of the present eres increased from 423,795 in 1872 to 551,075 in 1881, to 598,770 in 1891 and to 019,690. in 1901. The striking increase between 1872 and 1881 is attributable partly to the greater accuracy of enumeration in 1881 and partly to the impetus given to enlightened managemont of estates, and consequently to the extension of cultivation, which followed the settlement of the Government estates 'made in 1869-70. The northern part of the District is healthy, but not the southern portion. The population is contained in 3,184 villages and 2 towns, DALTONGANI, the head-quarters, and GARWA. . The District is very sparsely inhabited, the number of persons to the square mile being only 126. The density is greatest in the alluvial valleys along the course of the north Koel and Amanat rivers and on the right bank of the Son; olsowhere, and especially, in the south and west, the country is wild and inhospitable, and is inhabited mainly by forest tribes, who oke out their precarious crops of oilseeds, maize and cotton with the blossoms of the mahua. tree and other products of the jungle. There is some omigration to Assam; only 7,000 persons onumerated there in 1901 were entered as natives of Palamau, but it is believed that owing to the recent creation of the District, many of the Palaman emigrants returned their birthplace as Lobarduga and were therefore assigned to the category of those born in Ranchi. All but about 6 per cent: of the population speak Hindl, in most cases a patois of the Bhojpuri dialect known as Nagpuri, which has borrowed some of its grammatical forms from Chhattisgarhi; 3.5 per cent,

talk Oreon, a language of the Dravidien family, and 27 per cent, speak dialects of the Munda family, chiefly Mundari, Birjia and Korwi. Of the population 86 per cent, are Hindas, 84 per cent. Muhammadans and 42 Animists. Those returned as Hindu

include large numbers of semi-Hinduised aborigines.

The largest tribes and castes are Bhuyas (73,000), Khnrwar This (42,000), and Albirs; among other Dravidian tribes distinctive estemated this neighbourhood may be mentioned the Blogdts, Korwas, occupations and Parbuyas. The Otenes were at one time a dominant zone in south Bhibr; they are known in the Palman District as "the 12,000" it being popularly asserted that of the loginging of their role in Palimant they numbered 12,000 families. Agriculture supports 72 per cent, of the population, industries 117 per cent, and the professions 0% per cent,

Christians number 7,908, of whom 7,897 are natives. Nearly Christian

all reside in the Mahuadand thana, where a Roman Catholic Missions,

The rabi and bhadei crops, especially the former, are very pre-General carious nwing to the lightness and uncertainty of the rainfall agriculturand the rapidity with which all water runs aff to the main streams. at co The rice crop is oven mora pracarious, except where means of storing up water to irrigate the fields have been provided. A few of the more enlightened samindars have done n great deal to this end by throwing embankments across the natural alopa of the country and diverting small streams to fill these rude reservoirs; much has also been done by Government in the estates under its direct management. Rice lands have all to be laboriously constructed by terracing off fovourable hollows or filling up the beds of streams with the earth from their banks. For agricultural purposes the District consists broadly of two interlacing sones. The first consists of the valleys of the Amanut, the Koel and the Son, and contains stretches of fertile clay covered with paddy, sugaronne and various rabi crops. The second comprises the hilly areas which are generally covered with a thin loose gravelly soil ; and the population is chiefly dependent for its sustenance on the bhadoi crops. The most fertile soil is a black triable clay known as kendl, found in abundance in the valleys and also, though without any great depth, in the uplands. It is very retentive of moisture and produces good crops of paddy, wheat, and barley; in many cases khesari (Lathyrus satious) in grown on it after the rice has been burvested.

In 1903-94 the cultivated area was estimated at 577 square principaling current fullows at 588 square miles and other cultivatible crops, waste at 1,072 square miles, Eide, which is the stople crop in the valleys, is grown on 288 square miles, the winter crop being the most importont; mairs covers 56 squares miles, while other cereals, including marria, grant, purity, wheat, millies than the scote, assessi

and gondli, and pulses, chiefly rahar and keeder, cover an erea of 336 square miles. The chief miscellaneous crops are sugarcase, cilica and poppy.

Improvements in agricultural prac-

Cultivation is extending fast, and it is estimated that in the Government estates the increase amounted to P. per cent. in the seven years ending with 1903. In private estates. the further spread of cultivation depends on the degree to which the individual landlords attend to the wants of their ryofs in. the matter of irrigation. Spasmodic attempts have been made to improve the quality of evens by the selection of seed, but greater auccess has attended the introduction of asw varieties, and sugarcane, chillies, lineced, potatoes and gram are being grown more extensively than they were a few years ago. No. use was made of the Land Improvements and Agriculturists Loans Acts till 1896, but in the six following years Re. 1.40,000 was advanced, most of which has been recovered. In 1902-03 the operations were further extended, Government advancing Be 20,000 to samindate under the former and Ra. 38,000 to fananta under the lafter Ant.

Oattle.

The catile are poor; they are graced in the jungles, and in the hot weather wouths large numbers are sent to the high lands in the south and south-west and to the Surguis State, where posture is abradant.

Irrigatio:

Irrigation is almost confined to the construction of reservoir, or dutals, the more useful and valuelle of which are filled by the waters of diverted streams. Great skill is often shown, in planning and carrying out these adamets, and water, is brequently carried by means of rude obsamels and ruised entlements for a distance of 6 or Tuiles. These sources more interactionally manufacturities and seldom yield a profit of law them 20 to 20 per cent. It is estimated that half the oran under rice, is irrigated in this manner; practically the only other crops irrigated on emperance, poptry, addities and garden produce.

Forests.

The District contains 100 aguero miles of forcet, of which 188 egants miles no reserved forcet under the management of the Forcet department, and the remainder use professed forests under the control of the Despity Commissioner. The intrice comprise the surplus area left in each Government village after allotting to the consust vives as mich waste as there is cultivated land for extending sufficience. The reserved forcets left beingly in the control the District, the Bermand, the Ingest blook, extending over 601 square miles to the south of the Origin to the control of the District, the Bermand, the Ingest blook, extending over 601 square miles to the south of the Origin to the control the unit in the off-Govern relucted; which grows best in the more further of pain plang, the fact of the fills, which is here found in places sincert pure; higher, my mixed appears the same force of the Alley where the soil is power, and clease the entire (10 ther Tallable the Winter the soil is power, and clease the entire (10 ther Tallable the Winter the soil is power, and clease the entire (10 ther Tallable the Miles where the soil is power, and clease the entire (10 ther Tallable the Miles where the soil is power, and clease the entire (10 ther Tallable the miles and the

are satin wood (Ohloroxylon swietenia), chony (Diospyros melanoxylon) and black wood (Dalbergia latifolia), which are found in the mixed forest above the sal, but not in sufficiently large size to ensure a steady revenue. The majority of the forests are remote from the railway, and revenue is at present chiefly derived from bamboos, which are generally sold at Rs. 2 per 1.000. Other minor products of limited importance are sabal grass (Ischamum augustifolium), lee and the fruit of the mahua tree; gum kine is being experimentally extracted from the Pterocarpus marsupium for use in dyeing and tanning. The receipts from the reserved forests in 1903-04 were Rs. 5.000 .-There are extensive private forests, but these are as a rule less valuable than those belonging to Government, the landlords having only lately begun to preserve them. Plantations of mahua. teak, mahogany, kusum and disi-disi plants have been made, but have not as yet gone beyond the experimental stage.

The most important coul-field is that of Daltongani, where the Minerals, coal-bearing rocks in the valley of the North Koel river extend over an area of about 30 square miles and the coal contains s good proportion of carbon. The Anranga field has an area of 97 square miles and contains numerous coal scame, some of large size, but the quality of the coal is indifferent. The Hutar field. which lies to the west of the Auranga, has an area of about 79 square miles: the coal is comewhat inferior to that of Daltonmani. The Barun-Daltonganj branch of the East Indian Railway now taps the Daltongan field and bes brought the coal within reach of Cawnpore and other large manufacturing centres in the United Provinces. Mines were opened in 1902 at Rajhara and Singra; the former mine was first worked in 1857, but it had been closed owing to difficulties of transport. The coal is worked by means of pits and inclined planes; the output in 1903 was 34,000 tone and on the average 1,200 hands were employed; the labourers are for the most part Cheros and other local men. An immense quantity of iron ore is found all over the District, especially in the neighbourbood of the coal-fields. It is nf three kinds: magnetite occurring in the gneiss, siderite with brown and red hematite in the Gondwana, red and brown hematite in the laterite. The ores from the Gondwana are the most valuable. At present they are worked only to a small extent by some of the jungle tribes, and the ontturn is barely enough to satisfy local requirements. Lime-stone, candistone, laterite and graphite also exist, but difficulties of transport have bitherto prevented their being ntilized. Copper has been found, but not in sufficient quantities to be profitably worked.

Arts and manufactures exist only in the most primitive form, Arts and artisans do no more than supply the local demand for coarse manufactures. oloth, brass ntensils, silver and las ornaments of the rudest kind, tares, blankets, fat cloths for pack-bulleck bags, rudo country guns which

sell at R. I for each span length of the barrel, and steel and from for the manufacture of ploughs and tanges, a rude kind of are: ; the is made, tases silkworms are repred, and he is produced for expert.

Commerce.

The principal expuris from hidrs, lost, phi, obseeds, hombers, extended and coal; while the chief imports are European place-goods, each, bransvare, sugart, tokene, there are European places, post, and the neighbourhood of the military stations, where each weet, the tands in carried by mach-fullencies. Most of the export are sent in the first instance to Gaya or Dimpora. The chief transverse or Garwa, Dallongon; Harrinagani, Hussimblet. Pathra and Chandwa. Barter is a common form of their grain and more great proportunities for profit (to be middlehnan.

Raidy aye and roads

The Deltoupen's section of the Kest Indian Railvery (opened in 1909) runs for 85 miles within the District. The District contains 322 miles of road (of which 26 are metalled), and 38 miles of village tracks. The principal lines of road are from Deltocigns) to Gay's District etc alternlagens) and Manster, to Ranold, to the extreme south of the District hirosoph the Covernment forests, and to Altraques and Haustinked etc the improvation market of Garrier as good road from Garrier in the direction of Surgificts under construction, Culciscands in the Kool and 1st great breadth are extremely unfavourable to the development of the country, west of their free.

Famine.

Palaram was visited by famine in 1897 and again in 1000, on the former occasion the number of verkers relieved was 488,003 (in terms of one day) and on the Intire 219,740; the numbers granutously relieved were 459,941 and 81,774 reportively. In 1897, 15,000 manufa of ligrams rice were imported under a Government bounty of 8 mans per manud, and the badeing zamindars rendered loyal essistance in the relief of their tenantry. The total expenditure by Government was Ref. 1,19,000 in 1897 and 18,0000 in 1900.

drinte.

The sub-divisional system has not yet been introduced, and the administration of the whole District is cerried on from Datonganj, where the staff consists of the Deputy Commissioner and 2 Deputy Magistrate-Collectors.

livil and riminal ratice.

The principal civil and animale court is that of the Sadicial. Commissions of Oriota Naguru, who is attained at Risabili. The local criminal courts are those of the Deputy Commissions and the 2 Deputy Magistrates. The Deputy Commissions has possessed to the Commission of the Sadicial Processed Commission of the Sadicial Processed Code, and also ex-official Sadicial Sadicy and Sadicial S

In 1773 Palamau pargana was softled with Maharaja Gopal Land Rai fer 5 years at a revenue of Rs. 5,000 rising to Rs. 12,000 revenue. in the third year. It was then settled for 10 years at an anunal revenue of Rs. 15,000. In 1812 the Maharaja, Churaman Rsi, was in arrears to the extent of Rs. 55,000, and the pargana was put up to public auction and bought in by Government for the amount due, thus becoming a Government estate. From that period to 1830, with the exception of the period during which Palaman was given over to the Dec Rajas, the land revenue demand was Rs. 25,000 sicce, at which Rs. 13,000 was payable by the jugirders under the Maharaja and Rs. 12,000 was assessed an the khalsa villages under direct management. In 1839 the khales villages were sattled with the farmer for 20 years at Rs. 12,000, and the rent payable by the jugarders was mised to Ra. 16,000. In 1859 the khales villages were summarily settled for 3 years for Rs. 22,000, and in 1863 a 30 years settlement was concluded with the farmer for Rs. 36,000. This arrangement continued till 1896, when a new settlement for 15 years was made direct with the ryots. At the same time the jagardars were recognized as holders of permanently settled estates, the sum they were then paying to Government as the representative of the Maharaja of Palaman being fixed as the revenue payable in perpetuity. The current demand of land revenue in 1903-04 was Rs. 1,07,000, of which Rs. 27,000 was payable by 255 permanently settled estates, Rs. 1,400 by 4 temporarily settled estates and tho remainder by the Government estates. The incidence of land revenue is only 42 annas per cultivated acro; the average rental is Rs. 2-14-4, but the amount varies with the nature of the land cultivated, the means for irrigating it and its situation in the District. The hest rice land lets for Rs. 10 to Rs. 15 an acro in parts of Garwa and Patun thanas: Rs. 6 in the Government estates; and Rs. 4 to 6 in the south of the District. The hest bhadei and rabi lands fetch only Rs. 6 to. Rs. 8 an acre, while in the Government estates the maximum rate is Rs. 3. In some parts as much as Rs. 10 per acre are charged for land growing sugarcane. The average area in possessian of a tenant may be roughly estimated at 5.6 acres.

The following table shows the collections of land revenue and total revenue, under the principal heads (in thousands of

rupoes) since the formation of the District:-

	1	1652-93.	1990-01.	1903-04.
Land revenue		68	1,02	80
Total revenue		2,75	8,11	8,48

Local and govern. ment.

joils.

Outside the municipality of DALTONGANI local affairs are municipal managed by the District board. Its income in 1908-04, was: his. 80,000, of which Rs. 37,000 was derived from rates; while, the expenditure was Rs. 96,000, including Res 55,000 spent on

givil works Police and

The District contains 10 police stations and 11 outposts. The force subordinate to the District Superintendent of Police in 1963 consisted of 2 inspectors, 19 sub-inspectors, 24 head-constables and 213 constables. There was also a raral police force of 147. doffadare and 1,109 chaukidars, including 51 ghetredle who aremaintained to patrol the roads at the passes over the hills. A District jail at Daltongani has accommodation for 124

prisoners. liducation is very backward, only 19 per cent, of the population (3.7 males and 0.1 females) being able to read and write in 1001, but since the constitution of the District in 1892 the number of pupils has increased from 4,317 to 8,335 in 1903.04, of whom 1,024 were girls. In the latter year 150 per cent, of boys and 21 per cent, of girls were at school. Of the 332 'educational. institutions, 11 provided for secondary and 811 for primary clues, tion, and there was a training school. The most important institu-tion, is the high school at Dallongani. The total expenditure of . education in 1903-04 was Rs. 50,000, of which Rs. 15,000 was contributed from Provincial revenues, Rs. 19,000 from District

funds and Rs. 13,000 from fees. Modical.

The Dietrict contains 4 dispensaries, of which that at Daltongani has accommodation for 20 in-door patients; altogether, the cases of 12,495 out-patients and 34f in-patients were treated at these institutions in 1003, and 534 operations. were performed. The expenditure was Rs. 5,000, of which Rs. 1.700 was met by Government, Rs. 2,500 by local funds, Rs. 400 by municipal funds and Rs. 1,100 by subscrip-

iiona. accina.

Vaccination is not compulsory except in Daltongani town. In . Jon. 1908-04 the number of persons successfully vaccinated was. only 18,000, or 29's per thousand of the population. The morfality from smell-pox is higher than in most Bengal Districts.

[Sir W. W. Hunter, Statistical Account of Bengal, vol. Xvi. 1877; L. R. Forben, Settlement Report of Palamau, Calcutta, 1875; B. C. Basu, Report on the Agriculture of the District of Lohardaga, Calcutta, 1890; D. Sunder, Settlement Report of the .. Palamau District, Calentia, 1898.]

Daltangant .- Head-quarters of the Palaman District of . Bongal, situated in 24° 3° N; and 84° 4' E. on the North Koal . river. Population (1901) 5,837. This town is named after Colonel

Dalton, at one time Commissioner of Chota Nagpur. The town,

which lies to the immediate south of the Daltongani coal-field (see PALAMAU DISTRICT), and is connected by a branch line with the East Indian Railway system, possesses a brisk local trade. Daltongani was constituted a municipality in 1888. The average income for the decade ending in 1991-02 was Rs, 5,700 and the expenditure Rs. 4,900. In 1903-04 the income was Rs. 12,000, derived from various sources, such as a tax on persons (or property tax), a tax on houses and lands, the receipts from markets, and a conservancy rate, and the expenditure was Re. 9.000.

Garwa.-Town in the Palamau District of Bengal, situated in 24° 10 N. and 83° 50' E. on the Danro river. Population (1001) 3,610. Garwa is the chief distributing centre for the surplus produce of the District, and of a great part of Surguja State. Stick lac, resip, catechn, cocoons of fasar silk, hides, oilseeds, ghi, cotton and iron are here collected for export; the imports are food grains, brass vessels, piece-goods, blankels, silk, salt, tobacco, spices, drugs, etc. The market is held in the dry

season on the sands of the Daare river.

Manbham.-District of the Chota Nagpur Division of Bound Bongal, lying between 22° 43' and 24° 4' N., and 85° 49' and figuration, 86° 54' E., with an area of 4,147 square miles. It is bounded and hill on the north by the Hazaribagh and Santal Pargamas Districts; and river on the cast by Burdwan, Bankura and Midnapere; on the systems. couth by Singhbhum; and on the west by Ronchi and Hazaribagh. The whole of the northern boundary is merked by the Baraker river; on the north-east, the Barakar and Damodar separate the District from Burdwan; while the Subarnarekha

river flows along the boundary for short distances on the west and south.

Manbhum District forms the first stop of e gradual descent from the table land of Chets Nagpur to the delta of Lower Bengal. The undulation so characteristic of Chota Nagpur here becomes less pronounced, and level tracts of considerable extent are of frequent occurrence. In the north and east the country is open, and consists of a series of rolling downs, detted here and there with isolated conical hills. During the hot weather the scarcity of trees gives to this part of the country a scorched and dreary appearance; but in the rains the fresh green of the young rice and the varying foliage of the low junglo form contrasts of colouring with the seil, and the scenery assumes a park-like aspect. In the west and south the country is more broken and the scenery for more picturesque. Here the Bagbaundi range striking out from the plateau of Cheta Nagpur and farther to the south the Dalma rango dividing Manbhum from Singhbhum stend up as commanding features in the landscape. These hills are covered almost to their summits with large and heavy forest. The principal hills are Delma (3,407 feet), the highest peak of the range of that name,

Panchkot or Panchet (LCCO feet), situated to the north east of Purulia, and Gangabari or Gajburn, the highest neak of the Baghmundi plateen, situated about 20 miles south-west from Purulia. The principal raver is the Kasai, which flows through the District from north-west to south-east and then turns almost due south as it passes into Midnipore; the total length of its course is about 171 miles. Just above Raipur the Kisai lous rapids and several picturesque waterfulls of no great height. The Danonan flows through Manbhum in an easterly direction: with a slight inclination to the south. Its chief tributary, the Barakan, has already been mentioned as forming part of the north-eastern houndary of the District; and the Sunanaseres. as dividing it on the west and south from Rinchi and Singhlishin. The only other rivers of any importance are the Dhalkisor, which rises in the cost of Manbham and offer a short conth-easterly course entern Bankura; and the Silai, also rising in the east of the District and flowing south-coat into Bankura,

-

The geological formations are the Archeen and the Gondwina. The Archeen rocks consist of gnelss and crystalline,; schists, the gneis occupying by far the largest portion of the District. It belongs principally to the group known as Bengal guoiss, which is remarkable for its varied composition, consisting of successive hands of intermixed grapitic, grapulitie and district gnoisecs, and micadeous chloritie and hornblendie schists, with a laminated or foliated structure striking usually and and work. About the centre of the District is a great belt of unfoliated or only slightly foliated granitie intrusions, also striking east and west, and extending westwards into the adjacent District of , Ranchi, Orretalline limestones occasionally occur, Along the southern boundary there exists a group of rocks resombling the Dharwar schiats of southern India, which were originally sedimentary and volcanie, but have been altered into quartaites, quartaile sand-stones, slates of various kinds, herablendie miss. and talcose and chloritio subists, the latter passing into potstones. green stones and enidiorites.

Cuito close to the seathern boundary of Manbhun the schista imposing east and west many, which calminates in the left; Dalma hill. The sobiets are here more moreonophesed than elsewhere with a considerable development? (of, inc. one; in this

neighbourhood, merover, the reads are ribbest in gold.

The Gondwinns, whose age as determined by feesil plants is parlly upper policeroic and parlly messatio, are the principal rooks from an economic pents of view. They occur along the Damoder i view and form the Radjamy colo-liky, the vestern portion of which lies in Matabhirin, and the rish Jborrit cast-field inpot entirely situated within the District. The Gondwin and the rish reserves the contract of th

rocks comprise the Mahadeve, Panchet, Raniganj, ironstona sheles, Barakar and Talcher divisions, of which all but the first belong to the Lower Gondwanas. The series consists throughout almost exclusively of shales and sandstones. The coal seams are

restricted to the Barakor and Raniganj divisions.

The coal fields owe their preservation from denudation and their present situation to a system of faults that has sunk them amidst the surrounding gneiss. The faults are easily recognised along their boundaries, especially on the south, and sulphurous hot eprings are often situated in their neighbourhood. Innumerable fissures are occupied by intrusive dykes of basalt and of mion-apatite-peridotite, the latter being frequently detrimental to the coal seams which have often been burnt away by it. These intrusions are of the same age as the volcanie rocks of the

Rajmabal hills.

The narrower vallage are often embanked for rice cultivation, Botany, and the rice fields and their margins abound in marsh and water plants. The surface of the plateen land between the valleys, where level, is often bare and rocky, but where undulating, is usually clothed with a dense sorub jungle, in which Dendrocelamus stricins is often prominent. The steep slopes of the higher hills are covered with a dense forest mixed with olimbers. Sal (Shores rebusts) is gregarious; smong the other noteworthy . epocice are species of Buchanania, Semecarpus, Terminalia, Cedrela, Cassia, Butea, Bauhinia, Acacia, Adina, which these forests chare with similar forests on the lower Himalayan slopes. Mixed with these, however, are a number of characteristically Central India trees and shrubs, such as Cochlespermum, Soumida, Boswellia, Hardwickia, and Bassia, which do not cross the Gangetio plain. One of the features of the upper edge of the hills is a dwarf palm, Phaniz acaulia; while the wealth of scarlet blossom in the hot weather produced by the abundance of Butes frondess and B. superba is also striking.

Tigers, leopards, bears, wolves, hymnus, door and wild dogs Fauns. were formerly common but are decreasing in numbers, tigers being very rare visitors. The short-tailed Indian pangolin (Mame crassicaudata), which owing to its peculiar babits is one of the least known quadrupeds in India, is occasionally found in the

jungles bordering on Singhbbüm.

Temperature is moderate, except during the hot weather climate months of April, May and Jane, when the westerly winds from and tem-

survey of India.

^{*}The Anthena ratio has been feets that by T. Bill, Mancher, Geological Surrey of Infire, vol. vol.; part if, the Rengizer con-laid by W. T. Blindford, Mancher, vol. Gi, part if; the charrie cond-field by T. H. Bindford, Mancher, vol. V., part till, and by G. Wand, Record, Geological Europe of India, vol. axx, part if it he mineapattle peridettles by T. H. Holland, Raccett, vol. axxid, part ir. The share account was contributed by Mr. K. Yetchburg of the Geological

Central India cause great heat with very low humidity, The mean temperature increases from 82° in March to 80° in April, May and June, the mean maximum from 95° in March to 101° in May and the mean minimum from 68° to 76°. The average annual rainfell is 53 inches, of which 89 inches fall in June,

History.

13.4 in July, 13.2 in August and 7.8 in September, The distinctive tribe of the District is the Bhumij, who are alosely allied to the Mundes and have been identified with the Bajra Bhumi of Jain legendary history. The ancient Jains have left their traces in the rains of temples near Puralis and several places along the course of the Kasai and Damedar rivers, but we have no authentic records of this part of the country till Muhammadan times, when it was regarded as part of the Jharkand or forest tract, which is the name given in the Akbarnama to the whole truct from Birbhum and Panchet to Retanpur in Central India med from Robtasgarh in South Biher to the frontier of Orissa. In the Badshahnama the samindar of Panchet was shown as a commander of horse under Shah Jahan and his. samindari was subject to a fixed poshkosh. The territory comprised in the present District of Manbhom was acquired by the British with the grant of the durant of Bengal, Bihir and Orissa in 1766. Up to 1805 the estates contained in it were alinched some to Birbhum and some to Midnapora; but in that year they were formed with a few others into a separate District called the JUNEAR MAHALS. In 1832 one Gango Nartyan, a claimant to the Barabhilm estate in this District, reso in robellion, but was driven to Singhbhuin, where he died. As a result of these disturbances, a change of administration was determined upon, and by Regulation XIII of 1833 the District of the Jungie Mahala was broken up; the estates of Senpahari, Shargarh and Bishaupur wors transferred to Burdwan, while the remainder, with the estate of Dhalbhum detached of the same time from Midnapore, were formed into the present, District of Manhhum, which was withdrawn from the regular system of administration and placed under an officer colled the Principal Assistant to the Agent to the Governor-General for the South-West Frontier. Subsequently by Act XX of 1854 his title was changed to Deputy Commissioner, and that of the Governor-General's Agent to Commissioner of Chota Nagpur. Dhalbhum had again been transferred to Singhbbūm 8 years previous to this, and the District of Munbhum was reduced to its present area by further transfers of miner importance in 1871 and 1879. When the District was first constituted, the civil station was fixed at Manbezar, but it was transferred to Purilie in 1838. During the Mutiny of 1867 the military gardeon at Purilia, which consisted of 61 septys of the Ramgarh battalion and 12 sowers, all Hindustanis, rose, looted the Treasury, released the prisoners

in the jail, burnt the records, and then marched off towards

Ranchi.

The District contains soveral interesting orthocological remains, Arabee-most ancient of these are serviced to the Jain Straks, including levi-rains at Parks, Giarara, Pakkirs, where n temple, belonging probably to the servent contary, contains a risture of the Jain hierarch Aranath, and Book, where there is a group of temples, one containing a fine Jain figure now also known as Aranath. Instances of early Brahmaniel architecture occur in the Villages of Para and Kniras. A group of temples at Telkapi on the Damodar belongs apparently to the early part of the Muhammadan period. Other interesting rains exist at Daract, Boran and Paracters.

The population tree from £20,521 in 1872 to 1,058,928 in Ta-1881, to 1,193,328 in 1891 and to 1,301,364 in 1901. This rapid respit, growth is due mainly to the healthiness of the alimate and the fecundity of the aberiginal tribes who form the bulk of the inhabitants in 1891 it was also due in part to better onumeration, while in modern times the natural increase has been assisted by the opening up of the country by relivarys and the growth of the onal industry. Blindness and logroys are exceptionally common. The salinest statistics of the country of 1901 are reproduced below:—

Sch-ditzsion.	Arra In Square milet,		Tillegre.	Pepulation.	1935915	Percentage of variation in popular tion between 1871 and 1911.	Singler of propers able to read and write.
Portilla	2,365 673 4,147	3	4,973 745,6 745,6	1,001,012 977,100 1,001,301	576 310	+ 81	80,000 10,101 63,627

The three towns are Pursuix the head-quarter, Justins and Radunxarium. The density is greated in the olluvial tract elong the banks of the Damodar; in the broken country in the north-west and south the inhabitants are tower, except in the neighbourhood of the great Jherrik coul-ledt, where the mines attract large numbers of coolies. The Jherrik and Topolatechi thansa in the north-west contain the brak of the collieries, and grow by 70 and 30 per cent, respectively during the decade ending in 1901, accounting between them for over 45 per cent. of the total increase. A large number of immigrants, chiefly from Harbidgh, Billiar and the United Provinces, come to work in the mines, but the emigrants, more than helf of whom were cammersted in Assan, exceed the immigrants by over

. ... 74,000. The vermoular of the District is the western dislect of Bougali known as Rarbi bell. Along the western border this morges into Hindi, the dialect spoken being locally known as Karmali or Khotta, or even Khotta Bangala. Santali is spoken by 182,000 pursons. Hindus number 1.132,010 or 87 per cent. of the population, Animists 103.011 or 70 per cent, and Muham-

Their castra and occupa-Lions.

madane 62,709 or .4.8 per cent. : The aboriginal element is strongly represented, the most numerous tribes being the Santals (195,000, of whom 96,000 were returned as Hindus, and 99,000 as Asimists), the Bucuttes (169,000), and Koras (22,000). Many of the lower Hindu castes consist to a great extent of aboriginal clements; such ore the Bouris (09,000), Bhuriyas (37,000), Bujwars (32,000) and Doms (19,000), and probably also the Kurmis (241,000); the most mumerous caste in the District: Agriculture supports 67 per cent. of the population, industries 117 per cent, and the professions 13 per cent. Christians number 2,910, of whom 2,599 are notives.

Christian. Missions,

German Evangelistic Lutheran Mission, which begin work in 1804, maintains schools and also works among the lepers; while a mission of the Free Church of Scotland in the Gobindpur misdivision has a community of 700.

General nurteal. tural conditions.

The surface consists of a succession of rolling uplands with intervening bellows, along which the drainage runs off to join the larger streams. The soil is for the most part composed of hard, dry, ferruginous gravel, which has been furround into countless small channels by the discharge of surface drainage but many of the lower levels are filled with good alluvini soil The lower slopes of these uplends, and the swampy ground between, supply the only land on which a wet rice crop can be grown without elaborate levelling and ombanking. The hill sides whon terraced for its cultivation, present the appearance of a series of steps varying from 1 to 5 feet in height. In some cases the beds of streams are banked up at intervals and made into long narrow rice fields.

The salient agricultural statistics for 1903-04 are shown below: areas boing in square miles :-

agzicul-4mml statistics and prin-

			1 750 10	
Sub-revision.	Total,	Cultivated	Culturable waste. ;	Forests
Purülis Gobindpur	 3,754 803	1,485 470	161 61,	11
Toras	 4,647	1,988	. PER	II

It is estimated that 10 per ecat, of the cultivated area is twice cropped. The most important staple is rice, which covers an area of 1,428 square miles; two principal crops are grown, numer ans sown broadcast as soon as possible after the first good fall of min and reaped at the end of September, and the haimantik or aman, which is sown in a nursery about the end of May and afterwards transplanted and finally reaped from November to January. A third, but less important crop, the summer rice or goradhan, is sown broadcast in May on tablelands and tops of ridges, oad is reaped in August. The first two crops are grown only on loads in which there is a good supply of water. Other important cereals are maize grown on 172 square miles, marua, tajra, wheat and barley. Green crops and palses include gram, ming, kalai, rahar, pens, khesari, beans, kurthi and masuri, and are cultivated on 245 square miles. Among oilseeds rape and mustard are grown on 52 square miles, and til on about 16 square miles. Some sugarcane, cotton and tobacco are also grown. Rotation of crops is practised to a very limited extent. Manne is used for all crops to which the cultivator can afford to apply it. It usually consists of cow-dung, ashes, decayed leaves and grass, and black mud mixed with docayed vegetable matter gathered from the bettoms and sides of stagnant pools and tanks.

There is an over increasing demand for land, and, in Introverging of the unusual amount of labour required to bring iresh smits in fields under outlivation, reclamation is steadily proceeding under the file tenures known as negletation to the properties of practice, unceditivated wasts is still help, but it is estimated that during the decade ending in 1901-02 there was an increase of 60 per cent. in the area under crops. Lattle advantage is taken of the provisions of the Land Improvement and Agriculturists'

Loans Acts, but during the lean years 1895-08 Rs. 86,000 was advanced ander the previous of these Acts.

The local cattle are small, but a larger variety is sometimes Gause, obtained by occas-breeding with large literativity bulls. Requilar pastare grounds are mre, but millicious paddy strey is kept in stock by the ryots for folder during the hot weather months, and after this break of the nries the extensive waste lands of the District afford-ample pasturege. Fairs are hold anamily at Chakultor, south of Parillia, in September for a month and at Andre on the Parillia-Barakar road for about 20 days in April.

The surface drainage is repid and the seil dries un quickly; Irrigation irrigation of some kind is thus essential for most crops. There are no canals or other artificial water-courses, but there is a very large number of tanks and abars. The letter are reservoirs, often of considerable size, constructed by running a dam across o ravine or dip, thereby holding up the nutural surface drainage,

54 BENGAL

The fields below the dam are kept continually moin by the

Perculation of the water.

Three are two small protected forest, bot no writme is derived, from them. The predominant tree is set (Shower related). The principal mittor jungle products are less, estocha, estochards and same silk cocoons. Les receing forms the compation of a single section of the population. The best variety is produced on desaratore (Schleichers trijings), and inferior qualities on the Allegards and the products are the flowers of the medical flutter to a fine for the products are the flowers of the medical flutter (Jopanis Junios de La Cattle for Corpo de Spines). The control of the medical flutter of the medical flutter

Miperals.

The most important mineral in Manblum is seal which is mined on a large scale in the Gobindour sub-division. The Therris coal-field occurries an area of about 180 square miles, and a portion of the Raniganj-Barakar field also extends into the District. Coal had long been known to exist in Manbhum, but as recently as 1891 only two mines were being worked; with an output of 78,000 tons. The Jherris field was tapped by the rallway in 1894, and the output of coal from the collieries: of the District rose from 129,000 tone in that year to 1,281,000. tons in 1805, nearly the whole of the increase coming from the, Thorris field. After a short period of depression in the two following years the industry has grown steadily, and in 1903 as many as 141 collicries were at work, ets., 115 in the Therris field and 26 in the Raniganj with outputs of 2,746,000 tons and 246,000 tons, and giving employment to 28,000 and 3,000 persons respectively. The most important concerns are those of the Barakar Coal Company, Jardine Skinner & Co., the Standard Coal Company, Agabeg Brothers, MacLeod & Co., Turner Morrison & Co., the Ranigani Coul Association, the Bengal Coal Company and the Bangal-Nappar Coal Company.

Stam-power is generally used in the Bangani field, their, only te collisted in the Benrik field, whore good coal is often found very near the surface and the roof in many instances is of bard stone, and the system of working by mone of rights practicable. Shafts are never of the depths common in most collisions in Rogland, and the misses are one-generally free from the danger straing from gen which is no profile it cause of disaster there; the deepest shaft in the Blerrik field is one of 230. feel there; the deepest shaft in the Blerrik field is one of 230. feel

belonging to the Bhaga colliery.

Many of the latourers unployed our local residents, but a large number also come trees Hazardsagh; they generally belong to the aboriginal tribus or low Hindu caston. The relations between outside and labour appears to be on the or local testing meaning has every tadouement for labour is vury greats, a collicy meanager has every tadouement to treat his miners well; they are generally paid by piece work at rates appring from 12 amons to R. 1.4 per 100

cubic feet of coal raised, the wages carned usually emounting to

7 or 8 onnas n day.

About three-fourths of the coal produced is purchased by hig European firms who carry it hy mil to Calcutta. A small quantity is used by mills and steem ships there, but by far the greater portion is shipped to Bombay, Karachi, Madras, Ponang, Singapore, and other ports. About one-fourth of the output is consumed by different railways and by mills in the Upper Provinces.

A clay ironstone which constitutes a large proportion of the iron-stone shales is especially rich and plentiful in the Rausganj coal-field, where it is sometimes associated with carbonaccous matter forming a black-band iron ore. Among the gueissose and schistose rocks there are magnetic and titaniferous iron eres. Red hematite occurs in the niliceous fault breceins of the same areas, and interitie iron ores also oxist. The rocks on the senthern boundary of the District constitute part of the northern edge of the auriferous tract of Chota Nagpur. They are traversed by impumorable gold-bearing quarts veins, from which has been derived the alluvial gold obtained in all the rivers that drain the schist area. The Patkum prospecting syndicate attempted to work the gold on an extensive scale but failed, and the careful investigation to which the area has been subjected of late years leaves very little hope of extracting the gold at a profit, A vein of argentiferous galean occurs about a mila cast of Dhadka, on the south-east of the District. Several small scapstone quarries are worked, and rubble, quartz, kankar, sandstone, trap and basalt oro also quarried.

Shellac is largely manufactured, especially in the Jhalida Arts and and Balarampur thana, and 64 factories employing 1,400 hands manafacture at work in 1903-04. The manafacture of taxar silk is tures. carried on chiefly in Raghunathpur thana, and was formerly an important industry, but in 1903-04 the estimated entiurn was only 16,000 yards. Coarsa cotton cloths are weven all over the District, and are preferred by the lower classes to the imported machine-made article an account of their superior

durability. Brass and hell-metal utensils and rough brass ornaments are also manufactured in several places. Scapstone found in Chandil thang is made into cups, images, ele., but the industry is small. An inferior quality of rope is made from subal gress, which grows extensively in the Patkam, Baghmundi, Barabhum and Heala parganas. Cottory and guns are made at Jholida.

The chief exports are coal and coke, and the chief imports salt, Commerce cise, gram, pulses, kerosone oil, notion twist and cotton piecogoods, melasses, sugar and tobacco. Most of the imports come from Calcutta and Burdwan, with the exception of gram, pulses, tohacce and melasses, which come chiefly from Biliar. The coal exported by rail in 1903-04 amounted to ever two million tons,

of which nearly three-quarters were sent to Calculte and Howain The principal trade confres are Purillia, Jhalida, Chas, Ragiumāth pur, Chandil, Ohirkunda, Godindpur, Manbazar, Ichagarh, Bara bazar, Dubra and Nirsa. Most of the external trade is carried or by rail; bullock earts are extensively used for local traffic. The

Railways

bulk of the trade is carried on by Marwaris and Gandhabaniks. The Bengal-Nagpar Railway traverses the bead-quarters suband reeds, division from north-east to south-west. The Jherria extension of the East Indian Railway with its numerous sidings councels the coal-ficids of the Gobindpur sub-division with Asausol and Calcutta, and has been carried on to Bankura and Midnapore, intersecting the Bongal-Nagpur Railway at Adra station, Another line recently constructed links up Jharria with Gays. The District contains (1904) 818 miles of road, of which 682 miles are under the control of the District board and the remainder nro Provincial, 69 miles being maintained by the District board and 77 being in charge of the Public Works department. The Provincial reads, of which 119 miles are metalled, include 41 miles of the Grand Trunk road in Gobindpur sub-division, 42 miles of the Parulia-Barkar road and 30 miles of the Purilin-Raachi road. Of the District board roads 363 miles are metalled, the principal being those from Purilis to Chaibase, Manbaser and Bankura, and from Raghunathpur to Raniganj. The District board maintains 6 ferries on the more

Pamine.

The undulating character of the surface and the consequent rapid drainage render the District populiarly liable to drought, and Manbhum suffered during the general famines of 1866, 1874 and 1897. The distress in 1868 was felt over almost the whole District. Rice rose to the fabulously high price of 3) seers to the rupes in the month of August, and in the affected area as mony as 38,296 persons or 6 55 per cent. of the population died from starvation and its indirect effects. In 1674 the north and north-east of the District suffered most. In addition to a each expenditure of 27 lakks, more than 8,000 tons of grain were case a pentitude of a reason of the state of rice nover exceeded the rate of 12 sears to the rupes. The famine of 1897 was fell over the greater part of the District, but was most intense in the Geometrar sub-division. The price of grain was highest in July, when rice sold at 7 seers to the rupes. The total expanditure on relief works amounted to 23 lakhs, and Rs. 42,000 was spent in advances for village works. The aggregate number of persons relieved on works, expressed in terms of one day, was 1,811,569, and 1,436,195 persons received gratuitous relief.

For general administrative purposes the District is divided into . 2 sub-divisions, with head-quarters at Pountia and Gommorus. Subordinate to the Deputy Commissioner at Purulia is a staff

District and staff. of 5 Deputy Magistrate-Collectors; the sub-divisional officer of

Gobindpar is assisted by a sub-deputy collector.

The chief civil court is that of the Judicial Commissioner of Civil and Chota Nagpar. For the disposal of civil work a Subordinate criminal Judgo and 2 Muncifs sit of Parulia, and a Munsif each at Raghunathpur and Gobindpur. The Munsif of Raghunathpur also tries rent suits under Act X of 1839, and exercises the powers of a third class magistrate. Deputy Collectors try rent suits under Act X of 1859 at Puralio and Gobinspur. The Deputy Commissioner exercises special powers under section 31 of the Criminal Procedure Codo. As Additional Sessions Judge of Chota Nagpur, the Sessions Judge of Bankura tries all sessions cases and criminal appeals origing within Manbhim and Singhbhum : for the disposal of sersions cases he sits at Putilia, and for the hearing of oppeals sometimes at Parolis and sometimes nt Bankura. Of late years the District has been notorious for the number of dacoits it shelters, and in 1905 more dacoities were committed than in my other Bengal District. These crimes

are confined mainly to the coal-fields and are the work of upcountry criminals who congregate there. At the time of the decennial settlement the smaller chiefs land

were considered to be independent hard-holders and were admitted to tereste. to reparate settlements. Succession to land fellows the enstern of primogeniture; there has thus been no sub-division of property, and in 1903-04 there were in all only 29 revenue-paying estates with a current demond of Rs. 81,000; of these all but two are permanently sottled, the largest being Panchet with a domand of Rs. 58,000. The permanent settlement was extended to the District at a time whou it was appropared for such a measure, and the assessment is therefore disproportionately light, amounting to only R. 0-1-1 per cultivated acre. Special tenures are the glatuali and other service tourres, mointenance grants to the younger members of a camindar's family and manki and murari tenures, a survival of the aboriginal vallage system (see KOLHAN). The glatuale held a certain quentity of land on a quitrent as a remuneration for police duties which they are required to perform on behalf of Government. Other service tennees are those of the jagirdars in Panchet, who retain one-third or more of the produce of the villages included in their holdings; goraiti tenures or grants made to the gorait or villege messenger, and laudi grants made to layer or priests of the aberiginal deities. Petty cervice, or chairan, grants with no specific name are often made to barbers, potters, washermen, smiths and others performing menial services for their landlords; na a rule, they are given free of rent.

Maintenance tenures granted for the support of the younger members of a raja's or samindar's family are of two kinds.

khorposh and hikimali. The latter, which are confined to the Barabhum and Manbhum perganas, are grante of land assigned for the maintenance of the hities or second brother and the kungar or third brother of the samindar for the time being. On the death of the zamindar, the brothers of his encessor take up. the lands attached to the office of hikies or housed and perform the pervious in consideration of which those lands are held. A hikimali tonure is thus dependent on the life of the zamindars; and not on that of the tenure-helder. But each zamindar, when he succeeds to the estate, is bound to make suitable provision in the form of ordinary thorpost grants for the hitims who have vacated the hikimali grants derived from their, relationship to his predecessor. Such maistenance grants are held during the life of the grantees, and are liable to lepse at their danth to the parent estate. The incidence of rental for the whole District is estimated at R. 1-12-3 per cultivated acro; but owing to the. fact that land is seldom assessed on measurement, any statement of rates is only an approximation. In Barabhum the generally accepted rates of rent psyable by the cultivator to his landlord are Re. 4-12-9 per nore of babal or low-lying riso-land; Rs. 3.9-7 per cere of kaneli or moderately high rice land; Rs. 2-8-5 per nero of baid or high-land : R. 1-3-2 per sere et gord or the worst class of land. A substantial cultivating 170 pays about Rs. 2-2-0 for his bests or homestend land, 8 noncultivating grat R. 1-1-0, and a ryot of the poorer class about 81 annes. Similar rates provail in the other pargunds in the south of the District, but in Panchet and in other estates in the

morth they are from 50 to 100 per cent, higher.

The following table shows the collections of land revenue and total recenus, under the recipional lands, in themsends of regions.

	1680-81.	3800 94.	800 St. 1800-01. 1800 D		
Land revenue	53 5.97	, 82 4 75	80 6.97	84	

Local and manicipal gererament-

Outside the numisipalities of Pursua, Juantus, and Raovi-Naturus lead affair ser amonged by the District board in a subordinate local breast at Chebindry. In 1903-9 if in incess Rs. 14,200, fail of which was derived from rates, and the expanditure was Rs. 1,12,000, including Rs. 74,000 spent on civil works and Rs. 22,000 on education.

Daline or

The District contains 24 police stations and 3 outposts, and in 1993 the force suburdinate to the District Experimentary of Police consisted of 8 inspectors, 36 sub-inspectors, 24 head-constables and 207 constables. In addition, there was a rural

police ferce of 4,360 charkidars, of whom 1,720 held service tenures, and 1,972 ghatuals of different grades. The District jail at Purulia has accommodation for 276 prisoners and a subsidiary

iail at Gobindpur for 32.

The District is very backward in respect of education, and in Educa-1991 only 40 per cent. of the population (7.7 males and 0.3 tion. females) could read and write. The number of pupils under instruction increased from 10,563 in 1883 to 15,578 in 1892-93 and to 20,535 in 1000-01, while in 1003-01, 24,751 boys and 2,058 girls were at school, being respectively 25-2 and 2-1 per cent. of the children of school-going oge. The number of educational institutions, public and private, in that year was 700, including 26 secondary schools, 761 primary schools und 12 other schools. The expenditure on education was Rs. 1,28,000, of which Rs. 14,000 was met from Provincial finds, Rs. 32,000 from District funds, Rs. 600 from municipal fueds and Rs 51,000 from fees. The obief educational institution is the Purulia

Government school In 1903 the District contained 8 dispensaries, of which 5 Medical had accommodation for 64 in-door patients. The cares of 41,000 out-patients and 041 in-patients were treated during the year, and 1,023 operations were performed. The expenditure was Rs. 12,600, of which Rs. 800 was met by Government contributions, Rs. 2,000 from local and Re. 6,100 from municipal funds, and Rs. 5,300 from subscriptions. A loper asylum two miles south-west of Paralia town is managed by the German Evangelical Lutheran Mission. Its prounds cover about 400 acres and it has 509 inmates, including 83 children. Untainted children of loprous parents are received in a special home at some distance from the asylum.

Vaccination is compulsory only in municipal areas. During Vaccha-1903-04 the number of persons successfully vaccinated was 39,000, tion-

or 307 per thousand of the population.

[Sir W. W. Hunter, Statistical Account of Bengal, vol. xvii,

1877; F. B. Bradley-Birt, Cheta Nagpur, 1903.]

Parulia Sub-division. - Head-quartors sub-division of Manbhum District, Bongal, lying between 22° 43' end 23° 44' N., and 86° 49' and 86° 54' E., with nu area of 3,344 square miles. The sub-division occupies the declivity between the Chela Nagpur platean and Western Bengal. To the cast it merges in the alluviel plains, but to the west and south the country is more broken. This part of the sub-division contains the Baghmundi and Dalma ranges of hills, the latter of which soparates it from Singhbhum. Its population was 1,024,242 in 1901, compared with 971,894 in 1891, the density being 306 persons to the square mde. It contains 3 towns Punutia (population 17,291), its head-quarters, Jualida (4,877) and Raghunathpun (4,171) and 4,278 villages.

60 . BENGAL

Gobindpur Sab-division.—Northern sub-division of Manham Districts, Baccal, lying batween 25° 38° and 24° 4° n. and 86° 70° and 86° 10° lin, with an area of 86° septem miles. The sub-division consists of a triangular strip of centry between the Discotar and Barklar rivers; to the west the land rises to the Chot's Règius plateus, but to the north and east the country in open and sensist of a series of rolling downs with a few isolated bills: I'm population was 277,122° in 1901, compared with 221,43° in 1801, to density being 345 persons to the square mile. It contains 1,248° tillages, one of wisel, Gootstorue, is its head-quarter, but no towns. The Joernal coal-ded lins within the modiration, one the great growth of the population during the descin ceiling in 1901 is due to the rapid development of the mining industry.

Borsin. "Village in the leaft queries used chication of like blum District, Dorga, situated in 28° 22° N. and 69° 8° 2. It is noteworthy on account of the Jain remarks in the neighborhood, on the right band of the kineti river. Assid langs of the right hand the said river. Assid langs of the right hand the said river. Assid langs of the right hand the said river. Assid langs of the right hand rites stand the said of the said river. Assid langs of the remarks of the said the said of the remarks of the said the s

August, vol. vil., pp. 102—100.)

Buddhurn-Village in the bead-quarters sub-division of Manhilm District, Bengel, situated in 28° 68° N. and 86° 42° E. on the Kasai rive. Population (1991) 100. Extending for 2 miles along the bank are several ruins of what are thought to have been fain temples. A number of carred alabe of sidua, are sentiered about; and on extensive collection of colegonal bead-stones is believed to must the graves of the early selflers. About 4 miles to the north, at Ptklini, is a group of temples with a colossaf favor, about 9 feet high supposed to represent

one of the Tirthenkaras, or defined saints of the Jains.

Charry. — Village in the head-quarters shall-dividen of Minbitton District, Read, effected in 28° 22° N. ont 50° 26° R. A. comnises another cast of Aurilla. Expelleting (1907), 1,552. H. comnises another cast of Aurilla. Expelleting (1907), 1,552. H. commiss another cast of Aurilla. Expelleting (1907), 1,552. H. comlines were originally 7 temples, but 6 have fallow. Some of them were dain of Buddlinich, and numerous criticy actives most of the most contract of the contract of the contract of the conlines were dained by the contract of the contract of the remains of the first principle in the greater primader of the remains of soulptures lying about ara Brahmanical. According to local tradition these and some large tanks in the vicinity were cons-

tracted by Saraks.

Ballett — Principal bill in Manhim District, Bengal, Ballett in the head-quarters sub-division in 22° 53° N, and 58° 14° B., rising to a height of 3,407 feet where real-treel. It has been described as the rival of Paramith, but it lacks the bold precipices and commanding peaks of their hill, and is merely a long rolling ridge rising gradually to its highest point. Its alopes are covered with dense forcet, but are accessible to beast of burden. The chief aboriginal tribes living on the hill are the Khariga and Paharias.

Dalmi.—Site of rous in the head-quarters sub-division of Misbildin District, Bengal, situated in 29. 47 N. and 86° 27. R. on the Subarnarchin. The vulus include the remains of a fort and of many brick built tumples. They are representative examples of post-Muhammadan brick temples, but meary of the bricks and of the curved stome images formerly found here have been carried away by the villagers. An incombed figure of Activa is in the order,

and there is also a small figure of a 10-armed Devi.

Gobinduur Village,—Head-quarters of the sub-division of the same name, Manbbum District, Bengal, aimsted in 23° 50' N, and 86° 32' E. Population (1901) I.293. Gobinduper contains the neual sub-divisional offices and a sub-jall with accommodation

for 82 prisoners.

Inalida.—Town in the head-quarters sub-division of Minbūm District, Bengal, situated in 23° 28′ N. and 85° 50′ El. Population (1901) 4,877. Juditia was constituted a municipality in 1888. The average income and expenditure for the decade ending in 1901-02 were Bz. 8,000. In 1903-04 the income was Rz. 8,700, mainly from a tax on persons (or properly tax), and the expenditure was Rz. 8,400. Juditiá is a centre of the lac

and cutlery industries.

Palmä—Deerstel Jain estilencest, situated within a few miles of Purilin and near the Kasai river in the head-quarters subdivision of Manbhim District, Bengal. The patintypal temple stands on a mound covered with stone and brick, the derivation of buildings. There are several sculptures of much male figures standing on pedestals and under compiles, with Egyptian head-dresses, the arms hanging down streight by their sides, the hands turned in and touching the here. There can be no doubt that those images represent the Tirthunhams of the Jains.

Pänalit.—Hill in the bond-quartur sub-division of Manbbum Distriot, Bangal, situated in 28° 37° M. and 86° 47° E, half way between Raghanathpur and the junction of the Barskar and Dismodar rivers. It is 3 miles long, stretching from north to south in a long rounded ridge, and hea a height of 1,600 foot above see-level. A fort containing the ruins of many temple, tanks, sto., was once the main seat of the Raja of Panelict. A large annual gathering takes place at a temple on the side of the bill.

Puvilla Tevra.—Head quarters of Manhöm District, Bengal stituted in 28° 20° N. and 68° 22° K. on the Simi-staneol branch of the Bengal-Nigrar Rativary. Population (1901) 17,901. Puvilla was considered a manipolajity in 1870. 1801 were one in Expenditure for the decede ending in 1903-04 were one in 22,200. In 1902-04 the income was 12.7040, mainly derived from a tax on persons for property inty, a conservancy rate and receipts from matricts, while the expenditure was 18, 21,000. The town centains the usual public officers, while a larged oper arytum is attented in the magheoustheous the improved of the control of t

Ragnanthpur. Town is the bend-questors modificated Manchum District, Bengal statested in 22° 01' N. mai 80° W. E. Population (1001) 4,171. Regiumathpur was constituted a municipality in 1880. The average income for its design ording in 1900-04 was Rs. 2,900 and the expenditure Rs. 2,500. In 1903-05 the income and cappelliture were Rs. 3,000, the foundation of the contract of the

Boundaries, con ligaration, and bill and river systems,

Singhhim.—District in the senth-east of the Chota Magne Dividen of Bengal, lying between 21° 58° mal 28° 54° N, and 85° 0° and 80° 56° 15, with an area of 3,591° sparse miles It is bounded on the north by the District of Rendelland Marbhim; on the cast by Midsapore; on the senth by the Mayurban; and Koonjier States and by the Bonal State; and on the west by Ranchi and the Ottogray State. The bounder arise follow the costs of the namenade hill-magne which we in the District on every side, save for abort distances where they are marked by the Subernardship and Bailtrand years.

Stophhilm (the land of the Singh family of Tochases) comprises the Government scatt of the Romans in the southenest, the revenue-paying estate of Dhallhilm (Dhal being the cashindair's patronymial) in the east, and the revenue-for cetate of Forshilt in the west, while the Status of Santarina and Rizassawas list in the north, wedged in between Forshit mid. Dhalbhilm. The Dhictict forms part of the southern fringe of the Good Riggrup relateur, and the western portion is very him of Good for the mid in Sociation for in the southern and more than 2,600 fort, and in Sociation for in the southern in the order of more than 2,600 fort, and in Sociation for in the southern and the state of the southern in the southern of the southern fringe of the more than 2,600 fort, and in Sociation for in the southern and the southern of the southern and the southern the southern than the southern than

^{*} The figures, which differ from these shown in the course report at 1901, were supplied to the surveyor General,

where the mountains culminate in a grand mass which rises to a height of 3,000 feet. Outlying ranges stretch thence in a northeasterly direction to a point about 7 miles north-west of Chaibaso. Smaller ranges are frequently met with, chiefly along the northern marches of Saraikela and Kharsawan and in the south of Uhalbhum on the confines of the Mayurhhanj State, but in general the eastern and cast-central parts of the District, although broken and undulating, are comparatively open. The Singhbhum hills present a broken outline of sharp-backed ridges and conical peaks, which are covered with forest wherever it is protected by the Forest department; elsewhere the trees have been suthlessly out and the hill-sides are rapidly becoming here and rocky. Among the mountains the scenery is often beautiful. The mountains west of Chaibasa form the water-shed which drains north-eastwards into the Subarnarenna and south and west into the Brahmani river. The Suharnsrekha, which flows through the whole length of Dhalhhum, receives on its right hank the Sanjai, which drains Porahat, Kharsawan and Saraikela. The Kodkai rises in Mayurbbanj State, and with its affinent the Raro. on whose hank Chaibasa town is situated, drains the north of the Kolhan. and after passing through Saraikela, joins its waters with the Sanjai. The Karo and the Reel rivers drain the west of the District, and flow westwards into the Brahmant river, which they join in the Gangpur State. The beds of oll the rivers are strown with boulders, which impede navigation, and the banks ere generolly steep and covered with sorab jungle, but alluvial flats are deposited in some of the reaches where vegetables and tobacco are grown. The Phulihur river bursts out of the Rancht District into Singhhhum in a cascade which forms a pool supposed to be unfathomable, and the subject of various legends; similar poels in the Baitarani river on the borders of Keonjhar are held sacred. and at one about 2 miles from Juintgurh Brahmans have established a shrine, where Hindu pilgrims baths.

The District is occupied atmost entirely by the Archann Gedegy, group, a was terrise of highly altered rocks, consisting of quarticles, quartatite sandstones, states of various kinds, sometimes ellar, mice-subits, metamorphic himsestones, ribbonol forregimens inspers, tolcone and elboritis schists, the last possing into potatomes, haste volcanie lavas and ash-bede mostly altered to bornhicudio schists, greenstenas, and epidiarites. East nod south of Chniblest three is a large settency of a marise grantific gneise resembling that of Bundelkand and traversed in the same way by buge dytes of hasis rocks. Laterite is found in many places. In the suit it largely covers the older rocks and is in its turn concelled by allevium.

Memoirs of the Geological Survey of India, vol. avili, part it; and Records of the Geological Survey, vol. iii, part iv, and vol. axxi, part it.

Botany.

Singlibhum is in the zone of deciduous leaved forest and in the Central India sal tract, with a temperature attaining 1163 in the shade, and mountains rising to 3,000 feet with sourched southern slopes and deep damp valleys: its flora contains reprosentatives of dry hot countries with plants characteristic of the moist tracts of Assam. On reals, aften ton but to be touched with the hand, are found Ruphorbia nirulia, Rarantinuna, Starcilla urens, Bosnellia servata and the yellow cotton tree (Ochiesnerway government, while the ordinary mixed forest of dry slower is composed of Angueisens latifolia, Quacina, Odina, Chistanthus collinus, Zicyphus xylopyra, Buchanania latifolia and enecies of Terminalia and Baubinia. The sal varies from a sembly bush to a tree 120 feet high and is often associated with Offer, the mahid (Basela latifulia), Diospyras, Symploson recemosa, the gum kino tree (Pterocarpus marsupinm), Rugenia jambolana and specially Wendlandla tinctoria. Its common associates, Carena arbores and Dillenia peningma are born confined to the valloys, but Dillenia auren, a troo of the Eastern peninsula and sub-Himalayus, is ouriously common in places. The flora of the valley includes. Garcinia cosca, Litera nituda (Assamese), Amogra Robitula, Sarota Indica, Gnetum scandens, Musa samentum and ornata, Instinactio neduncularis (Burmoso) and others loss interesting. The best represented woody orders are the Leguminose, Rubinesa (including six species of Gardenia and Randia), Euphorbiacea and Urtiracea (mostly figs). Of other orders the grasses mumber between one and two hundred species, including the salar grass (Ischmium angustifolium) and spear grass (Andropogon contortus) Which are most abundant. The Cuperages number about 50 species, the Composita 50, and the Acanthacea about 11 undershrubs and 25 herbs. The principal bamboo is Dendrocalague strictus, and the other most useful indigenous plants are the metad (Bassia latifolia) and Diosonia for food, Bankinia Pahlii for various purposes, dean (Terminalia tomentusa) for the rearing of silkworms, Terminalia chebula for myrabolams, kusum (Schleichera trijuga) for lac and oil, and sabai grass.

Fauns.

Wild dephasts, bison, tigons, pandhers, bears, orders, spindiden, baying deer, four-borned anticlope, wild boars, bysues and wild dogs are found, but they are bocoming searce, owing to the butting prediction of the shortlines, and, with the exception of bears and some of the smaller natimals, they are now olimot entirely restricted to the reserved forests. Poismons senies are numerous. Many som and outfle are killed by wild antimals, and "approach bearts." Askerbotted, numerity in rewester in killing, dangerous beasts.

Climate During the hot weather months of April, May and June and ten. Westerly winds from Control India, cause high temperature with review very low humidity. The mean temperature longests from 81°

in Morch: to 90° in Auril and 93° in May; the mean maximum from 95° in March to 105° in May, and the mean minimum from 97° to 80°. During these mentles humidity is not so low in this District as elsewhere in Choka Nagura, though it falls to 9 per cent. In March and 56 per cent. In April. In the cold assect the mean temperature is 67° and the mean minimum 65°. The average rational for the year is 53 inches, of which 92 inches fall in June, 134 in July, 124 in August and 79 in September. The rainfall is hevirest in this west and south-west, but, owing to the meuntainous character of the country, it waries much in different localities, and one part of the District may often have good rain when another is sufforing from drencht.

Thanks mainly to its isolated position the District was nover mistory. invaded by the Mughals or the Marathas. The northern part was conquered successively by Bhuiva and Raiput chiefs, but in the south the Hos or Larka (fighting) Kols successfully maintained their independence against all comers. The Singh family of Porahat, whose head was formerly known as the Rain of Singhbhum, are Rather Rajputs of the Solor race, and it is said that their ancestors were three brothers in the hodyguard of Akhar's general, Man Singh, who took the part of the Bhuiyas against the Hos and ended by conquering the country for themselves. At one time the Raja of Singhbhum owned also the country now included in the States of Saraikela and Kharsawan, and claimed an unacknowledged suserainty over the Kolhan, but SARAIKELA and KHARSAWAK, with the dependent maintenance grants of Dugal and Bankshahi, were assigned to junior members of the femily. and in time the chief of Samikela became a dangerous rival of the head of the clon.

British relations with the Raja of Singhbhum dots from 1767. when he made overtures to the Resident at Midnapore asking for protection, but it was not until 1820 that he acknowledged himself a feudatory of the British Government, and agreed to pay a small tribute. He and the other chiefs of his family then pressed on the Political Agent, Major Roughsedgo, their claims to supremacy in the Kolhan, asserting that the Hos were their rebellious subjects and urging on Government to force them to return to their allegiance. The Hos denied that they were subject to the chiefs, who were fain to admit that for more then fifty years they had been unable to exercise any control over them : they had made various attempts to subjugate them, but without success, and the Hes had rotalisted flercely, committing great ravages and depopulating entire villages. Major Roughsedge, however, yielding to the Rajas' representations, entered the Kolhan with the avowed object of compelling the Hos to submit to the Rajas who eleimed their allegiance. He was

allowed to advance unmelested into the heart of their territory. but while encamped at Chaibasa an ettack was made within night ofthe camp by a body of Hes who killed one man and wounded several others. They then moved away towards the hills, but their retreat was out off hy Lioutonant Maitland, who dispersed thom with great loss. The whole of the northern Hes then entered into engagements to pay tribute to the Raja of Singhblum, but, on leaving the country, Major Roughsedge had to encounter the still fleroer Hos of the south, and after fighting. every inch of his way out of Singhbham, he loft them unsubdued. His departure was immediately followed by a war between the Hos who had submitted and those who had not, and a body of 100 Hindustani Irrogulars sent to the assistance of the former,

was driven out by the letter.

In 1821 u large force was employed to reduce the Hes, and after a month's hostilities, the leaders surrendered and, entered" into agreements to pay tribute to the Singhhhum chiefs, to keep the road open and safe and to give up offendors; they also promised that "if they were oppressed by any of the chiefs, they would not resort to arms, but would complain to the officer commanding the troops on the frontier, or to some other compotent suthority." After a year or two of peace, however, they again became restive, und graduelly extended the circle of their depredations. They joined the Nagpur Kols or Mundas in the reballion of 1831-82, and Sir Thomas Wilkinson, who was then appointed Agent to the Governor-Geogral for the newly formed non-regulation province of the South-Wostern Frontier, ut once recognized the necessity of u thorough subjugation of the Hos, and at the same time the. impolicy and futility of forcing them to submit to the chiefs. He proposed an occupation of Singhbhum by an adequate force, and suggested that, when the people were thoroughly subdued, they should be placed under the direct management of a British officer, to be stationed at Chaibasa. These views were occapied; a force under Colonel Richards entered Singhbhum in November 1836, and within three months all the refractory headmen had submitted. Twenty-three He purs or parganas were then detached. from the States of Porahat, Sarakela and Kharaswan, and these with four pire taken from Mayurbhani were brought under direct management under the name of the Kolhan; and a Principal Assistant to the Governor-General's Agent was placed in charge of the new District, his title being changed to Deputy Commissioner after, the passing of Act XX of 1854. There was no further disturbance until 1857, when the Porahat-Raja, owing largely to an .. unfortunate misunderstanding, rose in rebellion, and a considerable section, of the Hos, supported him. A tedious and difficult ampaign ensued, the rebals taking refuge in the mountains whenever they were driven from the plains; eventually, however

they surrendered (in 1859), and the capture of the Raja put an end to the disturbances.

Since that year the Hos heve given no trouble. Under the indicious management of a succession of officers, these savages have been gradually tamed, saftened and civilised, rather than subingated. The settlement of outsiders who might harass them is not allewed; the management of the estate is carried on through their own beadmen; roads have been made; new sources of industrial wealth have been opened out, new crops requiring more careful cultivation introduced, now wants created and supplied; even a desira for education has been engendered. and educated Hos are to be found among the clerks of the Chaihasa courts. The deposed Raja of Porahat died in exile nt Benares in 1890, and the estate, shorn of n number of villages which were given to various persons who had assisted the British in the Mutiny, was restored in 1895 as a revenue-free estate to his son Kumar Narnat Singh, who has since received the title of Raja. The present Porahat estate contains the rent-free tenures of Kera and Anandpur and the rent-paying tenures of Bandgaon and Chainpur.

Dhalbhum, which has en area of 1.188 square miles, was originally sottled with an ancestor of the present ramindar, because he was the only person vigorous enough to keep in check the robbers and criminals who infested the estate. It was originally part of Midnapore, and when the District of the Jungle Mahais was broken up by Regulation XIII of 1833, it was included, with the majority of the estates belonging to it, in the newly formed District of Manhhum; it was transferred to Singhhhum in 1846, but in 1876 some 45 outlying villeges were egain made

over to Midnapere.

There ere no archaelegical remains of special interest, but Archeethere still exist in the south and east of the Kolhan proper, logy. in the shape of tanks and architectural remains, traces of a people more civilised than the Hos of the present day; the tanks are said to have been made by the Saraka, who were Jains and of whom better known remains still exist in the Manbhum District. A fine tank at Benisagar is surrounded by the ruins of what must have been n large town.

The enumerated population rose from 318,180 in 1872 to The 453,775 in 1881, to 545,488 in 1891 and to 613,579 in 1901, people The increase is due in part to the inaccuracy of the earlier censuses; but a great deal of it is real; the climate is boulthy and the inhabitants are prolific, and the country has been developed. by the opening of the Bongal-Nagpur Railway; the recorded growth would have been much greater but for the large amount of emigration which takes place, especially from the Kelhan to the tea Districts of Assem and Jalpaiguri, as well as to the Orissa

States. In 1901 the density was 158 to the equate mile, the Chaibasa and Chaisile thanes having 191 and 199 souls respectively to the square mile, while Mancharpur in the west, where there are extensive forest reserves, had only 49. GHAIBASA, the head-quarters, is the only town; the remainder of the rootshion live in 3,150 villages, of which 2,973 have a population of under 500. Females are 20 per thousand in excess of males, and the dispreportion appears to be increasing. The Hes marry wary lais in life owing to the excessive bride-price which is customary. The population is polygiot : of every 100 persons 38 speak Ho, 18 Bengali, and 16 Oriva : Bantali and Mundari are also widely spoken. Of the inhabitants 336,088 persons (55 per cent.) are Animists, and 265,144 (43 per cent.). Hindus; one per cent. ste Christians and nearly one per cent, Musalmans

3 belr castes and оссира tions.

The Hes (233,000) constitute 38 per cent; of the population; and with their congeners the Biumijes (47,000) and Mundis, (25,000) account for nearly half of it. Santals minher 77,000. and Ahirs 53,000, while the other functional eastes most strongly. represented are Tantis or weavers (24,000) and Kamans or blacksmiths (11,000). Bluigts number 15,000 and Gonds 6,000. Of the population ?? por cent. are dependent on agriculture and

8 per cent, on industry.

Christian Missions.

The German Evangelical Lutheran Missien, the Society for the Propagation of the Gospel and the Roman Cathelie Mission are making considerable progress; their work is largely cluest tionel, but the number of Christians has more than doubled in the last 20 years. In 1901 it was 6,961, of whom 6,618 were native; Ohristians.

tural conditions

The country may be divided into three tracts, first the comparatively level plains, then bills alternating with epen vallers, and lastly the steep forest-olad mountains. In the last the outif vation was formerly more or less nomadic the clearances being abandoned after a single crop had been harrested from the virgin soil, but this wastoful system is discouraged, and extensive areas have been formed into forest reserves. The plains are embanked for rice cultivation; while in the intermediate trust the valleys are carefully levelled and grow rice, and the uplands or gord are roughly cultivated with millets, oilsceds and occasionally rice. The best lands are those at the bottom of the valleys which are swampy, and oither naturally or artificially irrigated. These are called bord lands and yield a rich crop of winter rice, occasionally followed by Linscod, pulses or barley. The higher conhanded, made are known as their and grow sairy tree. The best uplands grow an annual grop, but inferior lands are fit for oultivation only once in four or five years.

Principal In 1903-04 the outlivated area was estimated at 1,280 sanare. miles; 932 square miles were culturable waste and 1,240 square.

grope.

miles were under Government forest. Bise is the principal crop and complex nearly three-quarters of the entireated erea; rather more than balf of it is winter rise. Offseeds, principally repe end musterd, and erguja ecount for 8 per cent, and mains for 6 per cont, of the cultivated erea, while 20 per cent, is covered by putses, 2 per cent, by marval, and one per cent, each by millels end coften.

Cultivation is extending rapidly, especielly near the railway, Juprovebut the system of tillege is very primitive, and shows no sign mosts in of improvement. Very little advantage is taken of the Loans tural Acts.

Though pasturage is emple, the cattle are poer, and the Hos Cattle.

take ne interest in improving the breed.

The ordinary method of freignion is to throw an ordankment Irrigation, occas the line of drainage, thereby holding up the water, which is used for watering the cryst at a lower level by means of artificial channels and percelotion. In the Kolkan Government estate there are 1,000 reservoirs of this kind, a questior of which have been constructed by Government, and it is estimated that in the District as a whole a tenth of the cultivated area is irrigated in the way.

More than half the District is still more or less under forest. In Forests. the Kolhan 520 square miles end in Porahat 196 square miles heve been reserved under the Forest Act : the reserves in the letter tract are managed by the Forest department for the proprietor's benefit. Besides this, 212 square miles of protected forest exist in the Kolhan estate end similar forests in Porthat, though these heve not yet been defined. The Dhalbhum forests, which are also fairly extensive, are managed by the proprietor without the intervention of the Forest department. The principal tree is the sal, which is very valueble ewing to the hordness of its timber and the size of the beems which the larger specimens yield. The principal minor products are Inc. beeswax, chob, myrabolams and sabat grass, which is used for paper manufacture and also, locally, as e fibre. The total receipts of the Forest department in 1003-04 were Re. 84,000, and the expenditure was Rs. 57,000. The expenditure was swelled by the cost of working plans and of the reads which are being constructed in order to facilitate the extraction of timber. More than a third of the income is, derived from the cale of sabai grass,

The rooks of Singhblim centein u number of surfaceous silectus, quarte rena, by the diministration of which is produced alluvial gold found in the bods of some of the streams. Of late years, the District has been repeatedly examined by experts, but the proportion of gold in the numerous roots examined and in the, alluvium was found to be too low for profitable working. Copper ores exist in many places from the confines of Ranchi to those of Midnapore. The principal form is copper glance which is often altered to red copper exide, and this in turn to malechite and native copper. In ancient times these ores were extensively. worked, but modern attempts to resume their extraction have hitherto proved unsuccessful. Iron ore is frequently found on the surface, usually on hill slopes; and is worked in places, Limestone occurs in the form of the nodular accretions called kankar, and is used not only for local purposes but is also collected. and burnt for export to places along the milway.

A. little coarse cotton cloth is woven and sony-stone bowls and

ulates are made. , tures.

Manufac-

The chief exports are sell paddy and rice, pulses, oilseeds, Commerce stick-les, iron, tasar-silk coccouns, hides and sabai grass, and the imports, salt, gotton-varu, piece-goods, tobacco, brass utentile, sugar, keroseno oil, coal and coke. Since the opening of the railway trade has considerably increased, and large innantities of timber are now exported from the forests of the District and of the

adjoining Native States. The Bengal-Nagpur Railway traverses the District from sest Rallmay and roads, to west and is connected with the East Indian Railway by the Sini-Asansol branch. The roads from Chatbien to Chalradher. pur and from Chakradharpur towards Rhachi, about 50 miles, are maintained from Provincial funds; some 437. miles of road ato

maintained by the road eess committee, and 127 miles of village tracks from the funds of the Kolhko Government estate. Famina. The District has never been very seriously affected by famine;

there was, however, general distress to 1866 when relief was given, and in 1900 the pinch of searcity was again felt. In all reasons, and especially in years of deficient crops, the aboriginal inhabitants rely greatly on the numerous edible fruits and roots found

in the forests. Adminis-

erfminal.

justice.

There are no sub-divisions. The District is administered by tration. a Deputy Commissioner, stationed at Chaibase, who is essisted by 3 Deputy Magistrate-Ochlectors. A Deputy Conservator of

Forests is also stationed at Chaibasa. Ciril and

The Judicial Commissioner of Chota Nagpur is District Judge for Singhbham. The Deputy Commissioner has the powers of a Subordinate Judge, but the Sub-Jadge of Manbhum exercises concurrent, jurisdiction, and all contested cases are transferred to his file. A Doputy Collector exercises the power of a Munsif. and a Munsif from Manbhum visits the District to dispose of avil work from Dhelbhim, where along the ordinary Order of Civil Procedure is in force, Criminal appeals from magistrates of the first class and sessions cases are heard by an Assistant Sessions Judge whose head-quarters are at Bankura. The Donuty Commissioner exercises powers under section 34 of the Criminal ·Procedure Code; in his political capacity he hears appeals from the

orders of the chiefs of Saraikells and Kharaiwan, and he is also an Additional Sessions Judge for those States. Singhblüm is new the most criminal District in Chota Nagpur as regards the number of crimes committed, but the latter are rarely of a heinous character; thefix and cattle stealing are very common.

Dhalbhum was permanently settled in 1800 for Rs. 4,207 per Land ennum, plus e police contribution of Rs. 498. Porahat is a rerenue, revenue-free estate, but pays Rs. 2,100 as a police contribution. This estate, including its dependencies of Auandpur, Kera, Bandgaon and Chainpur, has recently been curveyed and settled. The everage rate of rent fixed at this settlement was about 84 annas per acre; in some parts it exceeded a rupee, but the general rate was brought down by the low rents levied in the wilder parts of the estate. The Kolhan Government estate was first settled in 1837 at a rate of 8 annas for every plough, and the total essessment amounted to Rs. 8,000. In 1853 this rate was doubled. In 1807 the estate was resuttled after measurement for a term of 30 years; only embanked rice land was assessed, et a reto of 12 onnes per acre, and the total land revenue demand was fixed et Rs. 65,000. The last settlement was made in 1898. Uplands were assessed, for the first time, et a nominel rate of 2 annas per core, and outsiders were made to pay double retes, but in other respects no change was made in the rote of sasessment. The extension of cultivation, however, had been so great that the gross land revenue demand was roised to Rs. 1.77,000, of which Rs. 49,000 is paid os commission to the mundas or villago headmen and the

makit or heads of groups of villages. The everege area of land held by a ryot is 4+ ocres, and, instuding gord, the average assessment per cultivated ocre is 84 mans. The following toble shows the collections of land rovenue and total revenue, under the principal beads, in thousands of

rupees :-

		1650-81,	2890-91.	1800-01.	1903-04.
Land revenue	•••	6 8	70	1,43	1,41
Total revenue		95	1,58	2,89	2,98

Outside the municipality of Channasa, local effairs are manage took, and ed by the road cess committee. This expends Rs. 18,000, mainly manicipal; on roads; its income is derived from a Government grant of german Rs. 10,000 and from cesses.

The District contains 5 police stations and 3 out-posts, and Police and the force under the control of the District Superintendent july.

of Police numbers an inspector, 12 sub-inspectors to headconstables and 165 constables. There is a rural police of 1.323 men, of whom about half are regular chaukidars appointed under Bengal Act V of 1887, and the rest (all in Dhallhum) are chaiteals, who are remnuerated by service lands. In the Kolhan there'. is no regular police, but the mankle and mundas exercise police authority and report to a special inspector, who himself investigates important cases. The District, juil at Chaibisa has accommodation for 230 prisoners.

Education is very backward, and in 1901 only 25 per cent; of the population (48 males and 03 females) could read and write. The number of pupils under instruction increased from about 8,500 . in 1882-83 to 15,055 in 1802-93. The numbers declined to 13,469 in 1900-01, but it rose again in 1903-04, when 15,165 boys and 1,171 girls were at school, being respectively 83-4 and 2-5 per cent, of the children of school-going age. The number of educational institutions, public and private, in that year was 440, ... including 15 secondary schools, 410 primary schools and 15 other schools. The exponditure on education was Rs. 64,000, of which . Rs. 38,000 was mot from Provincial funds, Rs. 7,000 from fees and the remainder from endowments, subscriptions and other ACCITOCA.

Medical.

Vaccina

tion.

In 1908 the District contained 2 dispensaries, of which one had accommodation for 14 in-door patients; the cases of 3,600 out-nationis and 154 in-patients were treated, and 170 operations were performed. The expenditure was Rs. 2,700, of which Rs. 700 was met by Government contributions, Rs. 1,400 from

municipal funds and Rs. 500 from subscriptions.

Vaccination is compulsory only within Chaibles municipality. In the whole District the number of persons successfully vaccinated in 1903-04 was 19,000, or 317 per thousand of the

population.

Sir W. W. Hunter, Statistical Account of Bengal, vol. xvii. 1877 : J. A. Graven, Final report on the cettlement of the Kolhan. Government Estate, Calcutta, 1898; F. B. Bradley Birt, Ohold

Nagpur, 1903.

Kolhan. Government estate in Singhhhum District. Boncal; lying between 21° 58' and 22° 43' N., and 85" 21' and 86° 3' E., with an area of 1,965 square miles. The Kolhan is a low plateau, - varying in elevation from 760 feet above sea-level in the neightbourhood of Chaibasa to upwards of 1,000 feet in the south. On the north, east and south, the country is for the greater part open and gently undulating; it is covered with numerous prosper-. roas villages and is well shirefuld, too depressions between the ridges being invariably sown with rice and some portion of the uplands with cereals, pulses or offseeds. In the south-east the surface is very rocky and covered with jungle; and in the west

and south-west are mountainous tracts thickly covered with jungle and very emisely inhabited. The villages here are mere hamlets souttered on the hill slopes, and an area of 529 square miles has

been formed into forest reserves. The bulk of the inhabitants are Hos, and British relations with them date from 1820. At that time the tract was a refuge for fugitive offenders from Chota Nagpur, and plundering excursions were frequently made by the Hos into the neighbouring territories. They thus became a thorn in the side of the Rais of Porahat and of the other chiefs in the north of Singhbhum. The British Government, wishing to put an end to the plundering excursione, formed relations with the Raia of Porabat and assisted him and the Saraikela and Kharsawan chiefs in bringing the Hos into submission. The chiefs, however, were mable to keep them in order, and in 1837 the British Government resolved to take their territories under its direct control. Colonel Richards entered their country with a strong force and secured their submission, after which 23 Ho pars or perganas were detached from the control of the Singhbhum chiefs and 4 from Mayurbhani and formed into the Kolhan Government estate. There was no further trouble until 1857, when the Hos joined the mutinous Raja of Porahat and a long and troublesome campaign took place, which terminated with the surrender of the Raja in 1859. The indigenous village-system of the Kola, based upon a federal union of villages under a single divisional head-man, which is gradually dying out elsewhere in Chota Nagpur, still survives in this truct. The whole estate is divided into groups of from 5 to 20 villages. Each village has its own munda or headman, all of whom ere subject to the authority of the manks or divisional headman. Every munda is responsible for the payment of the revenue, and for the detection and arrest of criminals in his village, to the manki, who is in his turn responsible to Government, For acting as revenue collectors, the mankis receive a commission of 10 per cent, and the mundes 16 per cent, of the revenue which passes through their hands. Besides these duties, the mankin and mundas. each in his degree, have certain informal powers to decide village disputes and questions of tribal usage. Persons other than Hos are not allowed to settle in the estate without the permission of the Deputy Commissioner. The last settlement was effected in 1897, when the gross rental was fixed at Rs. 1,77,000, subject to a deduction of Rs. 49,000 on account of commission to mankis. mundas and tahsildars or village accountants. A uniform rate of 12 annas per ecre was charged for embanked rice cultivation and 2 annas for uplands. New dikkus or non-Hos were assessed at double these rates. Of the total area 525 square miles were cultivated, 450 square miles were culturable, and 219 square miles unculturable waste; 212 square miles were protected forest, 529

14

square miles reserved forces, and 20 square miles toking, Ohnibises, to head quarters diffice of Singhbbim District, which lies within the estate, is assessed under a separate resilement. [J. A. Craven, Final report on the Settlement of the Holian Gorcinment Bates, Colonta, 1893.]

Porfilit.—Estato in the north-west of Singhthum District, Bengal, lying between 22° 15′ and 22° 54′ N. and 80° 5′ and 80° 46′ B., with a total area of 813 equator miles, or 614 square miles if its dependencies be excluded. It is for the next part hilly out is largely covered with forest. A fairly open lieft of country runs from the north-east to the south-west; this has been opened up by the Bengal-Nigpur Rallwipy and is bediffier and more extensively cultivated than the remember of the estate.

In former times the whole of Singhbhilm proper was ruled by o family of Rather Raiputs claiming descent from on officer of Raja Man Singh's namy which was sent to Bengal at the time of Dand Khan's rebellion. The States of Sanikela and Khersiwan were out out of the original State for junior members' of the Raja's family, and the chief of Seraikela gradually extended his power and dominious until he become a serious rival to the head of the family, who was now known as the Raja of Porahat. The country was exved by its rocky boundaries and statile soil from conquest by the Marathas, and was still independent when, in 1818, Raja Ghanasyam Singh Deo tendered his allegiance, to the British Government. His chief objects were to secure a recognition of his supremacy over the Rajas of Saraikola and Kharsawan and to obtain aid in reducing the refractory tribe d Larka Kols or Hos. The British Government disallowed his claim to supremacy over his kinsmen of Saraikela and Kharsawan, but accepted merely a nominal tribute of Rs. 101, and refrained from interfering in any way with the internal administration of the State. An engagement embodying these conditions was taken from him in 1820. It was intended that similar agreements should be ontered into by the chiefs of Saraikela and Kharsawan, but the matter appears to have been overlooked, and those chiefs have mover paid tribute, though they have frequently been called upon to furnish contingents of armed men to aid in suppressing disturbances. The Porthat family gradullay sank into poverty, and in 1837 the Raja received a pension of Rs. 500 as a compassionate allowance, in compensation for any losses he might have sustained in consequence of our assumption of the direct management of the Kolhan. In 1867 Arjun Singh, who was then Raja, after delivering up to Government the Chaibsen mutineers, rebelled himself. He was captured and deported to Benares, and his State was confirmed. Some portions of it were given to the chiefs of Saraikela and. Kharsawan and one or two other persons who had helped the Government during the Muliny, and the rest, on Arjun Singh's

death, wes regreated in 1895 to his sen Norpat Singh "to be held by him and his lineal male heirs necessing to the castom of lineal primegentiars (the delect made of eldect turned haing preferred) as an inalimable and impartible revenue-free zamination and the contract of the property of mointenance grants made by the Baja of Pershit to junior members of the family, and their helders paid quiteratts to him; these more remitted by Government after the Mutiny, and Norpat Singh has now no night to receive result from to interfere with them, but he has a reversionery right of succession in the event of extinction of male heirs. Bandgaon and Chainpur ore undertenants, the rent of which has been fixed in perpetuity. The forests of the Pershit estate are managed for the Raja's benefit by the Forest department.

The cetate (x'eduding the dependencies) is divided into 10 groups of villages or pirs. Two of there, which lie in the more open part of the country, are known as the Sadant pirs and the remainder as the Kohlán pirs. The estate has recently been restled for 15 years from 1903. In Porthat proper 150 squee miles one cultivated, and 75 square miles one cultivated, and 75 square miles one cultivated ones, as square miles are unculturable, and 244 square miles and pulses on also grown, specially in the more hilly Kohlán pirs. The rates for the hest rice land vary from R. 0.12-7 per core in the Kohlán to R. 1.9-2 in the Sadant pirs, and the total varied fixed at the rettlement was Re. 88,000 sting to Rs. 42,000 after

5 years.

Challata.—Lead-quarters of Shashhkum Diatriot, Bangal, attastel, in 22° 30° N. and 85° 49° E., on rising ground overlooking intusted, in 22° 30° N. and 85° 49° E., on rising ground overlooking the right hank of the river Ravo. Provintion (1901) 8,063. Challata was constituted a municipally in 1876. The avorage income for the decade outling in 1901-50 was Ra. 8,000 and the expenditure Rs. 7,000. In 1903-04 the income was Rs. 12,000 mainly derived from a tax on beness and lands, a conservancy rota and o tax on vehicles, while the expenditure was Rs. 10,000. The town lies within the Kollina Government estale. It contains the usual public officer; the Dristris is all has seconmodation for 230 prisoners, who ere employed on oil pressing, oloth, dart and carpot versing, and sole string making.

Chakradharpur.—Village in Singhbhūm District, Bengal, situated in 22° 41' N. and 85° 37' E. on the Bengal-Nagpur Railway, 194 miles from Calcultu. Populotion (1901) 102,608.

It is on imp rtant railway centre.

Sarranda.—11ill runge in the extreme south-west corner of Singhbhum District, Bengal, lying between 22° 1′ and 22° 28° N., and 35° 0′ and 55° 28° B. bordering on Gungpus Stota. It consists of a mass of mountains, rising to the height of 3,500 iect; the population inhabiling this region is emittered over a line poor hamlete meetling in deep valleys, and belongs for the meet part to the Ho and other aberiginal tribus.

Cross-references (for Imporial Gasetteer of

Dorunda, Centonment at Ranchi District, Basel Ranchi Tuwa Giridhi, Sub-division and town in Hazaritagh

Bengal. See Granium.
Govindpur.—Sub-division and village in Manhhum Di

Bengal Ses Gomenteun.
Juania Coal-field in Manbhum District Bengal.
Manbeuth.
Jherria Coal-field in Manbhum District Bengal.

Maximum.
Pachet.—Hill in Manbhum District, Bengal. Se Pancing.
Singhhum.—District in Bengal. See Sixonbuou.

